

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**FORM 8-K**

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**CURRENT REPORT**  
**Pursuant to Section 13 or 15(d)**  
**of the Securities Exchange Act of 1934**

Date of Report (Date of earliest event reported): November 6, 2024

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**Prelude Therapeutics Incorporated**  
(Exact Name of Registrant as Specified in its Charter)

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**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**001-39527**  
(Commission  
File Number)

**81-1384762**  
(I.R.S. Employer  
Identification No.)

**175 Innovation Boulevard**  
**Wilmington, Delaware**  
(Address of principal executive offices)

**19805**  
(Zip Code)

Registrant's telephone number, including area code: (302) 467-1280

Not Applicable  
(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value per share	PRLD	Nasdaq Global Select Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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**Item 2.02 Results of Operations and Financial Condition.**

On November 6, 2024, Prelude Therapeutics Incorporated (the "Company") issued a press release announcing its financial results for the three months ended September 30, 2024. A copy of the press release is attached as Exhibit 99.1 to this Current Report on Form 8-K.

**Item 7.01 Regulation FD Disclosure.**

The Company has prepared investor presentation materials with information about the Company, which it intends to use as part of investor presentations. A copy of the investor presentation materials to be used by management for presentations is attached as Exhibit 99.2 to this Current Report on Form 8-K and is incorporated herein by reference.

The information in this Current Report on Form 8-K and in Exhibits 99.1 and 99.2 attached hereto is being furnished, but shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended ("Exchange Act"), and is not incorporated by reference into any filing of the Company under the Securities Act of 1933, as amended, or the Exchange Act, whether made before or after the date hereof, regardless of any general incorporation language in such filing.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

<b>Exhibit Number</b>	<b>Description</b>
99.1	<a href="#">Press release issued by Prelude Therapeutics Incorporated regarding its financial results for the three months ended September 30, 2024, dated November 6, 2024</a>
99.2	<a href="#">Presentation</a>
104	Cover Page Interactive Data File (embedded within the Inline XBRL Document)

**SIGNATURE**

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

**PRELUDE THERAPEUTICS INCORPORATED**

Date: November 6, 2024

By: /s/ Bryant Lim  
Bryant Lim  
Chief Legal Officer, Corporate Secretary, and Interim Chief Financial Officer

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## **Prelude Therapeutics Reports Third Quarter 2024 Financial Results and Provides Corporate Update**

*Presented interim data from the ongoing Phase 1 dose escalation study of PRT3789, its first-in-class IV SMARCA2 degrader, demonstrating clinical proof of concept*

*Initiated a Phase 1 trial for PRT7732, its first-in-class oral SMARCA2 degrader in patients with SMARCA4-mutated cancers*

*Presented first preclinical data from its next generation degrader antibody conjugate (Precision ADC) platform*

*Interim phase 1 clinical data with potentially best-in-class CDK9 inhibitor, PRT2527, in hematological malignancies to be presented at the American Society of Hematology Annual Meeting in December 2024*

*Current cash runway into 2026 with \$153.6 million in cash, cash equivalents and marketable securities as of September 30, 2024*

WILMINGTON, Del., Nov. 6, 2024 (GLOBE NEWSWIRE) – Prelude Therapeutics Incorporated (Nasdaq: PRLD), a clinical-stage precision oncology company, today reported its financial results for the third quarter ended September 30, 2024 and provided an update on its clinical development pipeline and other corporate developments.

“Our third quarter was marked by dedicated execution and the achievement of essential milestones for our lead clinical programs targeting SMARCA2,” stated Kris Vaddi, Ph.D., Chief Executive Officer of Prelude. “We have demonstrated the first-ever clinical proof of concept with our first-in-class, highly selective IV SMARCA2 degrader, PRT3789, in patients with aggressive SMARCA4 mutated cancers including non-small cell lung cancer (NSCLC) and esophageal cancers as monotherapy. We also demonstrated an encouraging early safety profile with no overlapping toxicities in our ongoing PRT3789 combination study with docetaxel. We are focused on completing monotherapy dose escalation and rapidly enrolling combination arms to support advancement of PRT3789 into next phase of development, initially in these two cancer types.”

Dr. Vaddi continued, “Additional accomplishments for the quarter include the commencement of patient enrollment for our first-in-class, highly selective oral SMARCA2 degrader, PRT7732 in a biomarker selected phase 1 trial. With two highly differentiated SMARCA2 degraders in the clinic, we are well-positioned to build on our leadership in this novel and important therapeutic

class and provide optionality for patients. We look forward to reporting our progress on both of these programs beginning early 2025.”

Dr. Vaddi also added, “Other milestones for the quarter included presentation of first preclinical data from our Precision ADC program demonstrating the potential of SMARCA2/4 degrader as a potent and effective payload on multiple antibodies, as well as acceptance of interim clinical data in hematological malignancies of our potential best-in-class CDK9 inhibitor, PRT2527 at the American Society of Hematology Meeting in December.”

### ***Clinical Program Updates and Upcoming Milestones***

#### **PRT3789 – A first-in-class, highly selective, intravenous SMARCA2 Degradar**

PRT3789 is designed to treat patients with a SMARCA4 mutation. Patients with SMARCA4-mutated cancer have a poor prognosis. This represents an area of high unmet medical need.

PRT3789 is in Phase 1 clinical development in patients with biomarker selected SMARCA4-mutated cancers. Enrollment remains on track, and the Company expects to conclude monotherapy dose escalation by year-end 2024 and identify a dose for advancement to registrational trials. In addition, enrollment of patients into back-fill cohorts enriched for NSCLC and SMARCA4 loss-of-function mutations is ongoing, as is enrollment of the combination with docetaxel cohort. The Company also initiated a Phase 2 clinical trial evaluating PRT3789 in combination with KEYTRUDA® (pembrolizumab) in patients with SMARCA4-mutated cancers, per the previously announced collaboration with Merck (known as MSD outside of the US and Canada).

*KEYTRUDA® is a registered trademark of Merck Sharp & Dohme LLC, a subsidiary of Merck & Co., Inc., Rahway, NJ, USA.*

#### **Interim Phase 1 data presented at medical congresses in Q3 2024**

The Company presented the first interim clinical data updates of the Phase 1 dose escalation study of PRT3789 in SMARCA4 mutated cancers at ESMO Congress 2024 and the 36<sup>th</sup> EORTC-NCI-AACR Symposium. The presentations can be found at Publications - Prelude Therapeutics

As reported by investigators, PRT3789 was generally safe and well-tolerated at doses tested to date. Of the 26 advanced NSCLC or esophageal patients with Class 1 (loss of function) mutations who were evaluable for efficacy, RECIST confirmed partial responses (PRs) were observed in 4 patients (2 esophageal, 2 NSCLC). Of the 9 patients with Class 1 mutations treated at doses of 283 mg or higher, two had RECIST confirmed partial responses and both were NSCLC patients. Tumor shrinkage was observed in patients with both Class 1 and Class 2 SMARCA4 mutations. Additional patients on-study demonstrated clinical benefit as measured by prolonged SD, including one advanced NSCLC patient who remains stable and on study having been treated for more than a year.

Initial observations of safety from evaluable patients in the PRT3789 plus docetaxel combination dose escalation arm of the trial were also presented. To date, PRT3789 in combination with docetaxel demonstrated an acceptable safety profile, with no dose limiting toxicities or study drug serious adverse events reported.

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**PRT7732 – A potent, highly selective and orally bioavailable SMARCA2 Degradar**

PRT7732 is a highly selective and orally bioavailable SMARCA2 degrader. The Company initiated and enrolled our first patients in a phase 1 multi-dose escalation trial of PRT7732 (NCT06560645) in biomarker selected SMARCA4 mutated cancers.

**Pfizer Ignite Collaboration**

Prelude has entered into a collaboration agreement with Pfizer Ignite enabling streamlined access to Ignite services in support of Prelude's SMARCA2 degrader development programs. Per Pfizer, Ignite is a service offering providing partners access to Pfizer's significant resources, scale and expertise in developing potentially breakthrough medicines. Under the terms of the collaboration agreement, Prelude retains full ownership and global license rights to all of its programs.

**Precision ADC with SMARCA2/4 dual degrader payload**

Prelude is developing potent SMARCA2/4 dual degraders that robustly inhibit cancer cell growth and induce cell death across multiple cancer types. The Company presented the first preclinical data from its Precision ADC platform at the 36<sup>th</sup> EORTC-NCI-AACR Symposium in October. The data demonstrated potent activity of a SMARCA 2/4 degrader payload when conjugated to a range of commercially available antibodies, including PSMA, TROP2, C-MET, CEACAM5, and CD33. The SMARCA2/4 degrader payload conjugated to an anti-PSMA antibody demonstrated tumor regressions and significantly better *in vivo* efficacy compared to a traditional PSMA-targeted cytotoxic ADC in xenograft models of prostate cancer at well tolerated doses. The presentation can be found at Publications - Prelude Therapeutics.

**PRT2527 – A potent and highly selective CDK9 Inhibitor**

PRT2527 is a potent and highly selective CDK9 inhibitor that has the potential to avoid off-target toxicities observed with other less selective CDK9 inhibitors. The Company is currently advancing PRT2527 as monotherapy in both lymphoid and myeloid hematological malignancies, and in combination with zanubrutinib in B-cell malignancies.

PRT2527 is expected to complete monotherapy dose escalation in B-cell malignancies this year. Initiation of dose escalation in myeloid malignancies occurred in the first half of 2024. Interim phase 1 clinical data with potentially best-in-class CDK9 inhibitor, PRT2527 in hematological malignancies will be presented at the American Society of Hematology Annual Meeting in December 2024.

**Third Quarter 2024 Financial Results****Cash, Cash Equivalents, and Marketable securities:**

Cash, cash equivalents and marketable securities as of September 30, 2024 were \$153.6 million. The Company anticipates that its existing cash, cash equivalents and marketable securities will fund Prelude's operations into 2026.

**Research and Development (R&D) Expenses:**

For the third quarter of 2024, R&D expense increased to \$29.5 million from \$26.3 million for the prior year period. Included in the R&D expense for the three months ended September 30, 2024

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was \$3.4 million of non-cash expense related to stock-based compensation expense, including employee stock options, compared to \$3.3 million for three months ended September 30, 2023. Research and development expenses increased primarily due to an increase in our chemistry, manufacturing, and controls (CMC) costs supporting our pre-clinical and clinical programs. We expect our R&D expenses to vary from quarter to quarter, primarily due to the timing of our clinical development activities.

**General and Administrative (G&A) Expenses:**

For the third quarter of 2024, G&A expenses increased to \$7.9 million from \$7.1 million for the prior year period. Included in general and administrative expenses for the three months ended September 30, 2024, was \$2.5 million of non-cash expense related to stock-based compensation expense, including employee stock options, compared to \$3.4 million for three months ended September 30, 2023. General and administrative expenses increased primarily due to an increase in professional fees incurred to support our research and development efforts.

**Net Loss:**

For the three months ended September 30, 2024, net loss was \$32.3 million, or \$0.43 per share compared to \$30.6 million, or \$0.45 per share, for the prior year period. Included in the net loss for the quarter ended September 30, 2024, was \$5.9 million of non-cash expenses related to the impact of expensing share-based payments, including employee stock options, as compared to \$6.7 million for the same period in 2023.

***About Prelude Therapeutics***

Prelude Therapeutics is a leading precision oncology company developing innovative medicines in areas of high unmet need for cancer patients. Our pipeline is comprised of several novel drug candidates including first-in-class, highly selective IV and oral SMARCA2 degraders, and a potentially best-in-class CDK9 inhibitor. We are also leveraging our expertise in targeted protein degradation to discover, develop and commercialize next generation degrader antibody conjugates (Precision ADCs) with partners. We are on a mission to extend the promise of precision medicine to every cancer patient in need. Our corporate presentation can be found at Events & Presentations - Prelude Therapeutics. For more information, visit [preludetx.com](http://preludetx.com).

***Cautionary Note Regarding Forward-Looking Statements***

This press release contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995, including, but not limited to, anticipated discovery, preclinical and clinical development activities for Prelude's product candidates, the potential safety, efficacy, benefits and addressable market for Prelude's product candidates, the expected timeline for initial proof-of-concept data and clinical trial results for Prelude's product candidates, and the sufficiency of Prelude's cash runway into 2026. All statements other than statements of historical fact are statements that could be deemed forward-looking statements. The words "believes," "anticipates," "estimates," "plans," "expects," "intends," "may," "could," "should," "potential," "likely," "projects," "continue," "will," "schedule," and "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These

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forward-looking statements are predictions based on the Company's current expectations and projections about future events and various assumptions. Although Prelude believes that the expectations reflected in such forward-looking statements are reasonable, Prelude cannot guarantee future events, results, actions, levels of activity, performance or achievements, and the timing and results of biotechnology development and potential regulatory approval is inherently uncertain. Forward-looking statements are subject to risks and uncertainties that may cause Prelude's actual activities or results to differ significantly from those expressed in any forward-looking statement, including risks and uncertainties related to Prelude's ability to advance its product candidates, the receipt and timing of potential regulatory designations, approvals and commercialization of product candidates, clinical trial sites and our ability to enroll eligible patients, supply chain and manufacturing facilities, Prelude's ability to maintain and recognize the benefits of certain designations received by product candidates, the timing and results of preclinical and clinical trials, Prelude's ability to fund development activities and achieve development goals, Prelude's ability to protect intellectual property, and other risks and uncertainties described under the heading "Risk Factors" in Prelude's Annual Report on Form 10-K for the year ended December 31, 2023, its Quarterly Reports on Form 10-Q and other documents that Prelude files from time to time with the Securities and Exchange Commission. These forward-looking statements speak only as of the date of this press release, and Prelude undertakes no obligation to revise or update any forward-looking statements to reflect events or circumstances after the date hereof, except as may be required by law.

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## PRELUDE THERAPEUTICS INCORPORATED

STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS  
(UNAUDITED)

(in thousands, except share and per share data)	Three Months Ended September 30,	
	2024	2023
Revenue from license agreement	\$ 3,000	\$ —
Operating expenses		
Research and development	29,457	26,261
General and administrative	7,919	7,124
Total operating expenses	37,376	33,385
Loss from operations	(34,376)	(33,385)
Other income, net	2,105	2,777
Net loss	\$ (32,271)	\$ (30,608)
Per share information:		
Net loss per share of common stock, basic and diluted	\$ (0.43)	\$ (0.45)
Weighted average common shares outstanding, basic and diluted	75,855,949	67,639,993
Comprehensive loss:		
Net loss	\$ (32,271)	\$ (30,608)
Unrealized gain (loss) on marketable securities, net of tax	457	106
Comprehensive loss	\$ (31,814)	\$ (30,502)

## PRELUDE THERAPEUTICS INCORPORATED

## BALANCE SHEETS

(in thousands, except share data)	September 30, 2024	December 31, 2023
<b>Assets</b>	(unaudited)	
Current assets:		
Cash and cash equivalents	\$ 11,134	\$ 25,291
Marketable securities	142,492	207,644
Prepaid expenses and other current assets	2,761	2,654
Total current assets	156,387	235,589
Restricted cash	4,044	4,044
Property and equipment, net	7,202	7,325
Operating lease right-of-use asset	29,182	30,412
Other assets	405	295
Total assets	<u>\$ 197,220</u>	<u>\$ 277,665</u>
<b>Liabilities and stockholders' equity</b>		
Current liabilities:		
Accounts payable	\$ 5,921	\$ 4,580
Accrued expenses and other current liabilities	13,579	15,768
Operating lease liability	2,365	1,481
Finance lease liability	359	—
Total current liabilities	22,224	21,829
Other liabilities	3,153	3,339
Operating lease liability	15,412	15,407
Total liabilities	<u>40,789</u>	<u>40,575</u>
Commitments		
Stockholders' equity:		
Voting common stock, \$0.0001 par value: 487,149,741 shares authorized; 42,178,012 and 42,063,995 shares issued and outstanding at September 30, 2024 and December 31, 2023, respectively	4	4
Non-voting common stock, \$0.0001 par value: 12,850,259 shares authorized; 12,850,259 shares issued and outstanding at both September 30, 2024 and December 31, 2023	1	1
Additional paid-in capital	711,091	693,252
Accumulated other comprehensive income	167	223
Accumulated deficit	(554,832)	(456,390)
Total stockholders' equity	<u>156,431</u>	<u>237,090</u>
Total liabilities and stockholders' equity	<u>\$ 197,220</u>	<u>\$ 277,665</u>

**Investor Contact:**

Robert A. Doody, Jr.  
Senior Vice President, Investor Relations  
Prelude Therapeutics Incorporated  
484.639.7235  
rdood@preludetx.com

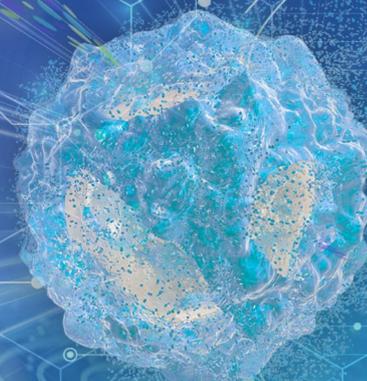


**Prelude**  
THERAPEUTICS

**Corporate Presentation**

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**November 2024**



## Forward Looking Statements

This presentation contains “forward-looking” statements within the meaning of the “safe harbor” provisions of the Private Securities Litigation Reform Act of 1995, including, but not limited to, anticipated discovery, preclinical and clinical development activities for Prelude’s product candidates, the potential safety, efficacy, benefits and addressable market for Prelude’s product candidates, the expected timeline for clinical trial results for Prelude’s product candidates including its SMARCA2 degrader molecules.

Any statements contained herein or provided orally that are not statements of historical fact may be deemed to be forward-looking statements. In some cases, you can identify forward-looking statements by such terminology as “believe,” “may,” “will,” “potentially,” “estimate,” “continue,” “anticipate,” “intend,” “could,” “would,” “project,” “plan,” “expect” and similar expressions that convey uncertainty of future events or outcomes, although not all forward-looking statements contain these words. Statements, including forward-looking statements, speak only to the date they are provided (unless an earlier date is indicated).

This presentation shall not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of these securities in any state or other jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or other jurisdiction.

These forward-looking statements are based on the beliefs of our management as well as assumptions made by and information currently available to us. Although we believe the expectations reflected in such forward-looking statements are reasonable, we can give no assurance that such expectations will prove to be correct. If such assumptions do not fully materialize or prove incorrect, the events or circumstances referred to in the forward-looking statements may not occur. We undertake no obligation to update publicly any forward-looking statements for any reason after the date of this presentation to conform these statements to actual results or to changes in our expectations, except as required by law. Accordingly, readers are cautioned not to place undue reliance on these forward-looking statements. Additional risks and uncertainties that could affect our business are included under the caption “Risk Factors” in our filings with the Securities and Exchange Commission, including our Annual Report on Form 10-K for the year ended December 31, 2023.





*We are on a mission to extend the promise of precision medicine to every cancer patient in need*



*Strive for first- or best-in-class and anchor to patient unmet need*

*Select the best modality to precisely target oncogenic mechanisms*

*Draw on decades of experience and proven leadership to drive innovation*

# Experienced Leadership Team With Proven Track Records in Precision Oncology



**Kris Vaddi, PhD**  
Chief Executive Officer



**Jane Huang M.D.**  
President and Chief Medical Officer



**Peggy Scherle, PhD**  
Chief Scientific Officer



**Andrew Combs, PhD**  
Chief Chemistry Officer



**Sean Brusky, MBA**  
Chief Business Officer



**Bryant Lim, J.D.**  
Chief Legal Officer,  
Corporate Secretary and  
Interim CFO



# Prelude's Evolution

2016 – 2022



2022 – 2025



2025+

## Establish Leading Precision Oncology Discovery Engine

- Assembled team to create a highly productive discovery engine
- Delivered initial wave of first- or potentially best-in-class clinical development candidates:
  - PRMT5i, MCL1i, CDK9i, CDK4/6i, SMARCA2 degraders

## Expand Development Capabilities, Strategic Focus on SMARCA

- Advancing clinical programs including IV SMARCA2 degrader (PRT3789), oral SMARCA2 degrader (PRT7732) and CDK9 inhibitor (PRT2527) towards PoC
- Developing SMARCA as 'Pipeline in Program' with IV, Oral and 'Precision ADC' Approaches

## Advance to Registrational Trials, Demonstrate Value

- Continue to grow R&D team while adding key capabilities for future growth
- Expand global clinical development footprint and capabilities
- Advance lead clinical development candidates to registrational trials



### Strategic Priorities

- ~1 new IND every 12-18 months
- Successfully advance programs into early clinical development

- Continue to build SMARCA leadership
- Generate proof-of-concept data
- Prepare for global registrational trials

- Advance SMARCA "Pipeline in a Program"
- Explore collaborations to accelerate trials and global capabilities

## Prelude's Precision Medicine Pipeline & Discovery Engine

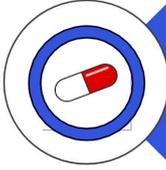
PROGRAM	POTENTIAL INDICATIONS	DISCOVERY	PHASE 1	PHASE 2/3	UPCOMING MILESTONES
<b>Lead SMARCA2 Degradar (IV)</b>	SMARCA4-mutated NSCLC & other cancers		<i>PRT3789</i>		<b>Dose Confirmation by YE2024; Phase 2 Pembrolizumab Combo Trial Start in Q4 2024</b>
<b>Oral SMARCA2 Degradar</b>	SMARCA4-mutated NSCLC & other cancers		<i>PRT7732</i>		<b>Phase I Trial Initiated</b>
<b>SMARCA2/4 Precision ADCs*</b>	Broad range of cancers (heme & solid tumors)				<b>First Pre-clinical PoC Data Presented at ENA; Additional Data in 2025</b>
<b>Next-Gen CDK9 Selective Inhibitor</b>	Myeloid and Lymphoid malignancies		<i>PRT2527</i>		<b>Interim Phase 1 Data Anticipated in Q4 2024</b>
<b>Discovery Engine</b>	Hard-to-treat cancers, "undruggable" targets, high unmet need				<b>Deliver a First- or Best-in-Class New Program Every 12-18 Months</b>
<b>Precision ADCs*</b>	Broad range of cancers (heme & solid tumors)				<b>Advance Additional Novel Payload-Antibody Pairings</b>

\* Precision ADCs are the focus of our strategic collaboration with AbCellera

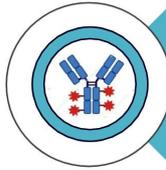
# Developing an Industry Leading Portfolio of SMARCA-Targeted Precision Medicines



Lead SMARCA2 Degrader (PRT3789)



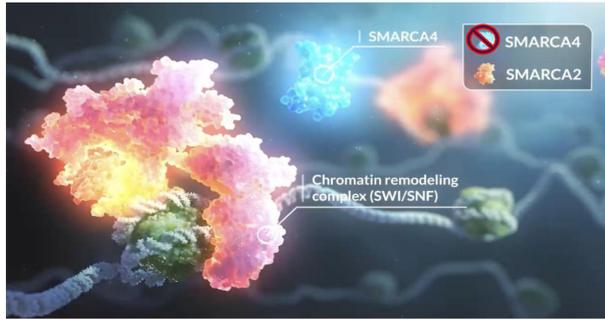
Oral SMARCA2 Degrader (PRT7732)



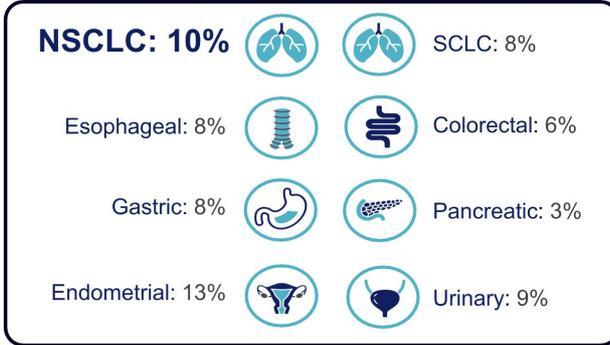
Precision ADCs with SMARCA2/4 Degrader Payload

# Targeting SMARCA4-mutated Cancer By Selectively Degrading SMARCA2

Mutations in the chromatin remodeling complex drive cancer growth and resistance



SMARCA4 (BRG1) mutations occur in approximately 5% of all cancers



Dagogo-Jack et al. Journal of Thoracic Oncology. 2020 Foundation Medicine Dataset

Cancer cells with deleterious SMARCA4 mutations become highly dependent on SMARCA2 for survival

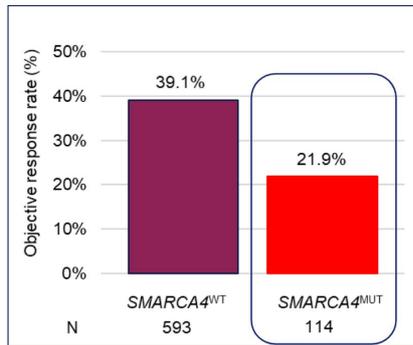
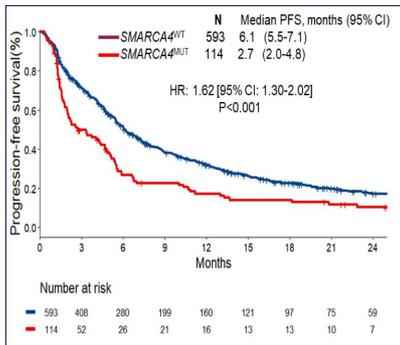
Selectively degrading SMARCA2 induces "synthetic lethality" in SMARCA4-deficient cancers

Patients with SMARCA4 mutations are not typically eligible for other targeted therapies

Currently treated with standard of care chemotherapy or chemo-immunotherapy

# Outcomes for Patients with SMARCA4-*mutated* NSCLC are Poor with Current Standard of Care

## Patients treated with first-line chemoimmunotherapy

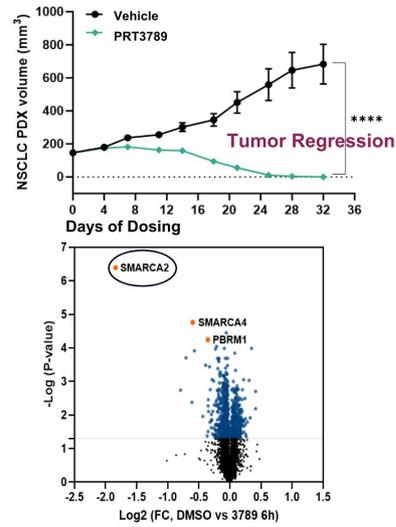
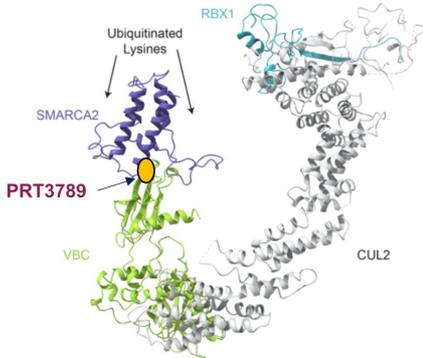


Median progression free survival for first-line SMARCA4-mutated NSCLC treated with chemoimmunotherapy is 2.7 months and response rates approximately 22%

There is even greater unmet need in second-line and beyond

# PRT3789: A Highly Potent SMARCA2 Degrader with >1000-fold Selectivity Over SMARCA4

Preclinical Assay	PRT3789
SMARCA2 Degradation (nM)	0.73
Selectivity: Cell Proliferation (SMARCA4 / SMARCA2)	>1000 fold



Hulse et al. *Cancer Res.* (2022); 82 (12\_Suppl) :3263.  
AACR 2022 Poster (<http://www.preludetx.com/science/publications>)

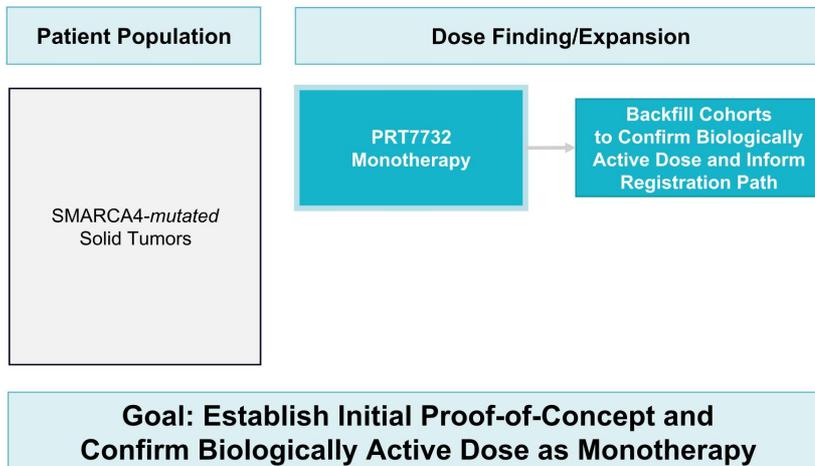
Sub-nanomolar SMARCA2 degradation potency in cell lines

Anti-tumor activity, including regressions, in SMARCA4 mutant models *in vivo*

Highly selective for SMARCA2 vs SMARCA4 (>1000 fold) and selective across the proteome

# PRT7732: First-in-Class, Highly Selective Oral SMARCA2 Degrader – Phase I Trial Initiated

Assay	PRT7732
SMARCA2 Degradation (nM)	0.98
Selectivity: Degradation (SMARCA4 / SMARCA2)	>3000 fold
Selectivity: Cell Proliferation (SMARCA4 / SMARCA2)	>1000 fold



ClinicalTrials.gov Identifier: [NCT06560645](https://clinicaltrials.gov/ct2/show/study/NCT06560645)

Sub-nanomolar SMARCA2 degradation potency in cell lines

Very high selectivity for SMARCA2 over SMARCA4

Good oral bioavailability observed across species supports projected once-daily human dose

# Interim Update from PRT3789-01 Presented at Plenary Session of the 2024 ENA Symposium

2024 Triple Meeting Update

ENA 2024  
EORTC NCI AACR  
36<sup>th</sup> Symposium

## Clinical results from a phase 1 trial of PRT3789, a first-in-class intravenous SMARCA2 degrader, in patients with advanced solid tumors with a *SMARCA4* mutation

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ClinicalTrials.gov Identifier: [NCT05639751](https://clinicaltrials.gov/ct2/show/study/NCT05639751)

Yap, T. *et al.*, ENA (EORTC, NCI, AACR) 36<sup>th</sup> Symposium, October 24<sup>th</sup> 2024

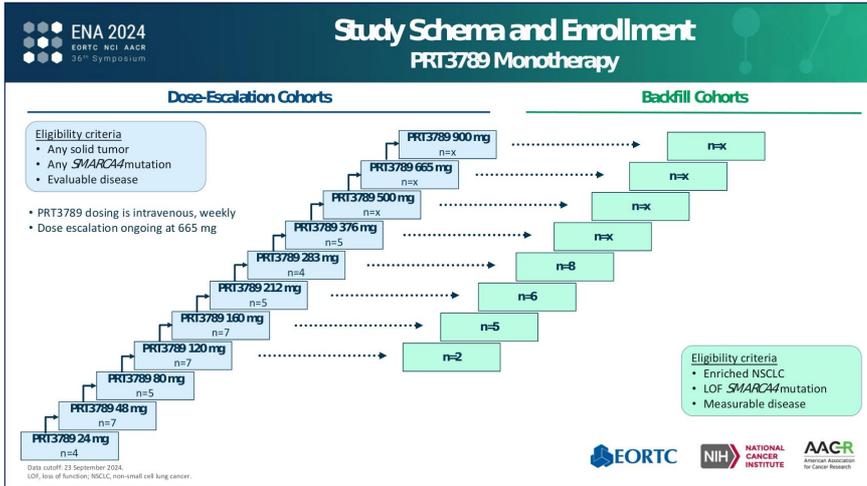
Data cutoff: 23 September 2024

Additional clinical activity observed in NSCLC patients with Class I mutations treated with PRT3789 monotherapy at doses  $\geq$  283 mg

First look at safety and PK data from PRT3789 + docetaxel in combination demonstrate acceptable safety profile, with no dose limiting toxicities to date

# PRT3789-01: Study Schema and Enrollment

2024 Triple Meeting Update



Study is enrolling patients with evaluable disease, any solid tumors, and any type of *SMARCA4* mutation

Dose escalation is on-going, now at cohort 10 (665 mg)

Data presented includes additional follow-up on 65 patients treated in escalating doses from 24 to 376 mg, including backfills enriched for NSCLC with Class 1 (LOF) mutations

## PRT3789-01: Demographics and Disease Characteristics, PRT3789 Monotherapy

Characteristics	Patients (N=65)
<b>Age (years)</b>	
Median	62
<b>Sex, n (%)</b>	
Male	36 (55.5)
Female	29 (44.6)
<b>Prior lines of systemic anti-cancer therapy, n</b>	
Median (min, max)	3 (1, 10)
<b>Tumor type, n (%)</b>	
Non-small cell lung cancer	30 (46.2)
Pancreatic cancer	6 (9.2)
Breast cancer	4 (6.2)
Gastric cancer/small intestine cancer	3 (4.6)
Thoracic undifferentiated	3 (4.6)
Cholangiocarcinoma	2 (3.1)
Colorectal cancer	2 (3.1)
Esophageal cancer	2 (3.1)
Other	13 (20.0)
<b>Type of SMARCA4 mutation, n (%)</b>	
Class 1 (loss of function)	34 (52.3)
Class 2 (missense, VUS)	24 (36.9)
Loss of SMARCA4 protein (BRG1) by IHC	7 (10.8)

Note: For the ENA analysis, 4 patients previously listed as NSCLC were reclassified as "thoracic undifferentiated" or "other". Patients with at least 7 weeks of follow-up are included.

VUS, variant of uncertain significance; IHC, immunohistochemistry.

Yap, T. *et al.*, ENA (EORTC, NCI, AACR) 36<sup>th</sup> Symposium, October 24<sup>th</sup> 2024

Data cutoff: 23 September 2024

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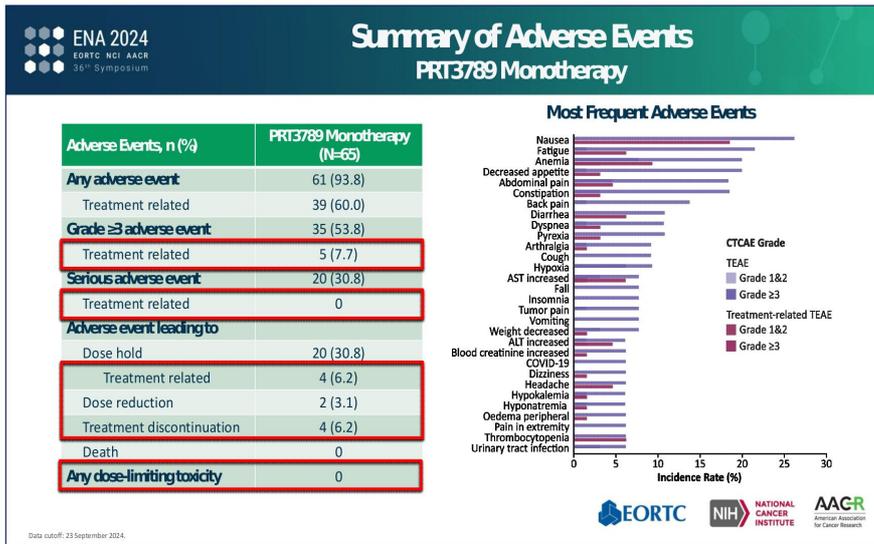
**65 patients with additional follow-up included in the analysis were treated and safety evaluable at time of data cutoff**

**The primary tumor type, as characterized by investigators, was NSCLC (n = 30) along with other solid tumors**

**34 patients had Class 1 (loss of function) mutations and an additional 7 patients had loss of SMARCA4 protein by IHC**

# PRT3789-01: Summary of Adverse Events

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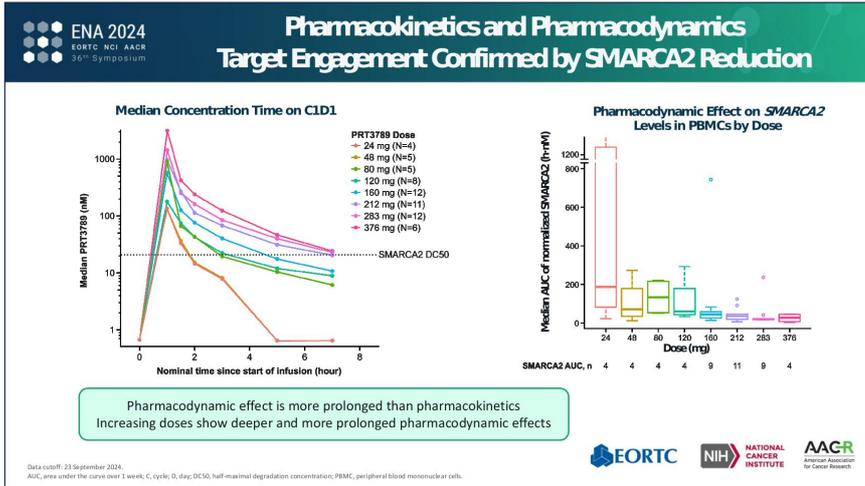


PRT3789 was generally well tolerated at doses studied with no treatment related SAEs or dose-limiting toxicities reported

Of all Treatment Emergent Adverse Events (TEAEs) of any grade, nausea, fatigue, anemia and decreased appetite had the highest incidence

# PRT3789-01: Phase 1 Interim PK Findings

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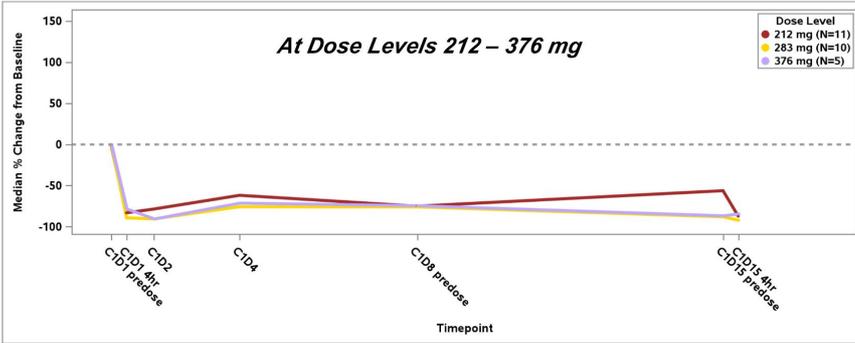
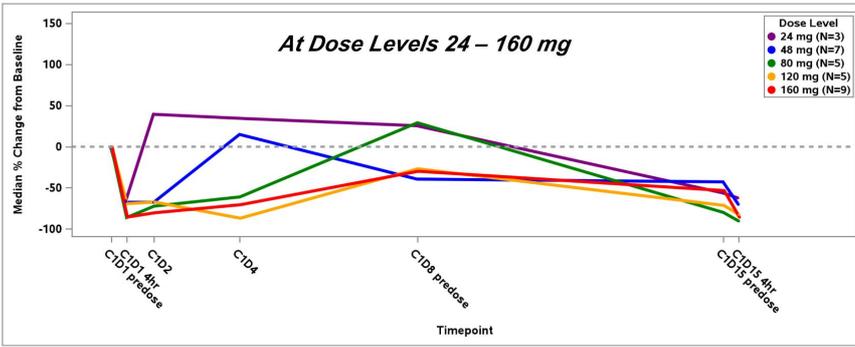
Preliminary PK data are available from 24 mg to 376 mg

General trend of increases in exposure (C<sub>max</sub>, AUC) with higher doses was observed

At the 376 mg dose level, mean concentrations were above SMARCA2 plasma DC50 (21 nM) for approximately 8 hours

As expected with a potent degrader, the observed pharmacodynamic effect was more prolonged than pharmacokinetic half-life

## PRT3789-01: SMARCA2 Protein Levels in PBMCs



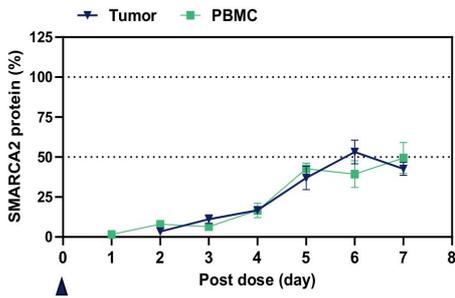
Note: LLQ (Lower Limit of Quantification) values were used for any value BLQ (Below Limit of Quantification).  
 Source: Data on file. PBMC, peripheral blood mononuclear cells.

At dose levels up to 160 mg, degradation of SMARCA2 was observed in PBMCs at early time points, but recovered or was above baseline by the end of the dosing interval (7 days)

At dose levels 212 – 376 mg, greater consistency, dose dependency, and sustained degradation of SMARCA2 were observed throughout the treatment cycle

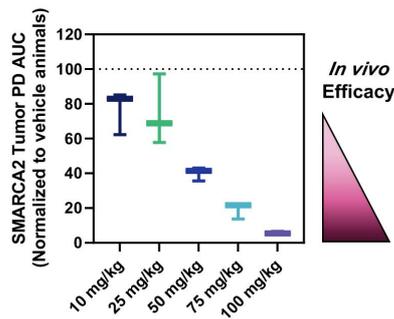
# PD Correlates with Efficacy in Preclinical Models

### SMARCA2 Levels over Time After a Single IV Dose of PRT3789



Tumor levels from mouse xenograft model and PBMC levels from normal rat after single doses that provide equivalent and efficacious exposure

### PD AUC/Efficacy Correlation



50 mg/kg = 243 human dose equivalent  
75 mg/kg = 365 mg human dose equivalent  
100 mg/kg = 487 mg human dose equivalent

In preclinical models, correlation was observed between PBMC and tumor SMARCA2 degradation levels at efficacious doses

Increasing doses resulted in increased reduction in SMARCA2 PD AUC in tumors and were associated with higher efficacy

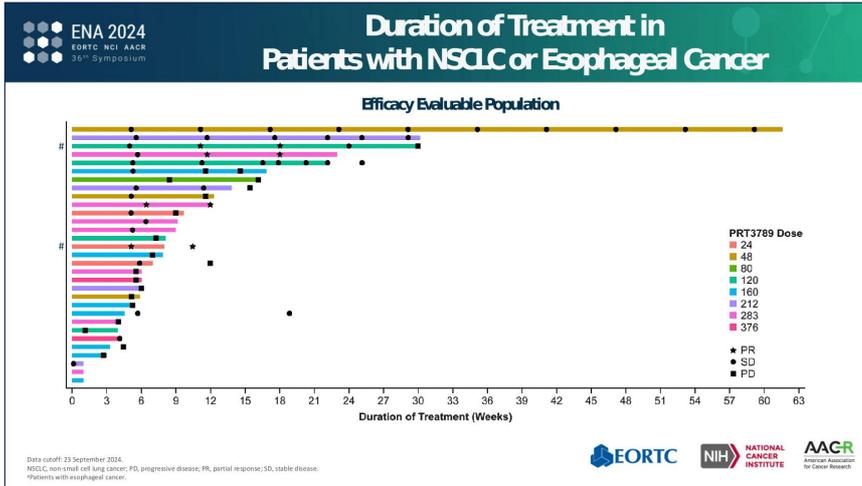
AUC, area under curve; PBMC, peripheral blood mononuclear cells.

Source: Wang et. al. ENA 2023 Poster (<http://www.preludetx.com/science/publications>); Data on file



# PRT3789-01: Phase 1 Interim Clinical Activity

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As reported by Alessi *et al.*, the median PFS for first-line SMARCA4-*mutated* NSCLC treated with chemoimmunotherapy was 2.7 months<sup>1</sup>

Several patients had prolonged stable disease (SD) including a NSCLC patient who remains on treatment for more than a year

<sup>1</sup> Alessi JV, et al. Clinicopathologic and genomic factors impacting efficacy of first-line chemoimmunotherapy in advanced non-small cell lung cancer (NSCLC). J Thorac Oncol. 2023 Feb 10:S1556-0864(23)00121-1. PMID: 36775193.

Yap, T. *et al.*, ENA (EORTC, NCI, AACR) 36<sup>th</sup> Symposium, October 24<sup>th</sup> 2024

Data cutoff: 23 September 2024

# PRT3789-01: Response Rate By Dose Level

2024 Triple Meeting Update

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## Response Rate in NSCLC or Esophageal Cancer, Efficacy Evaluable, With Class 1 Mutations

Patients With Class 1 *SMARCA4* Mutations

Response Rate	PRT3789 Doses <283 mg (n=17)	PRT3789 Doses ≥283 mg (n=9)	All Doses (n=26)
Objective response rate, n (%)	2 (11.8)	2 (22.2)	4 (15.4)
95% CI	1.5, 36.4	2.8, 60.0	4.4, 34.9
Best overall response, n (%)			
CR	0	0	0
PR	2 (11.8)	2 (22.2)	4 (15.4)
SD	2 (11.8)	3 (33.3)	5 (19.2)
PD	11 (64.7)	3 (33.3)	14 (53.8)
Symptomatic deterioration	2 (11.8)	1 (11.1)	3 (11.5)
Duration of follow-up <sup>a</sup> (weeks)			
Median	40	12	28.5
Min, max	22.0, 73.0	8.0, 23.0	8.0, 73.0

Esophageal

NSCLC

Data cutoff: 23 September 2024.

CI, confidence interval; CR, complete response; NE, not evaluable; NSCLC, non-small cell lung cancer; PD, progressive disease; PR, partial response; SD, stable disease.

<sup>a</sup>Duration of follow-up defined as time from treatment start to data cutoff.



Note: Table includes all efficacy evaluable patients with NSCLC or esophageal cancer with Class 1 mutations, with or without a post-baseline scan

<sup>1</sup> Alessi JV, et al. Clinicopathologic and genomic factors impacting efficacy of first-line chemoimmunotherapy in advanced non-small cell lung cancer (NSCLC). *J Thorac Oncol.* 2023 Feb 10:S1556-0864(23)00121-1. PMID: 36775193.

Yap, T. *et al.*, ENA (EORTC, NCI, AACR) 36<sup>th</sup> Symposium, October 24<sup>th</sup> 2024

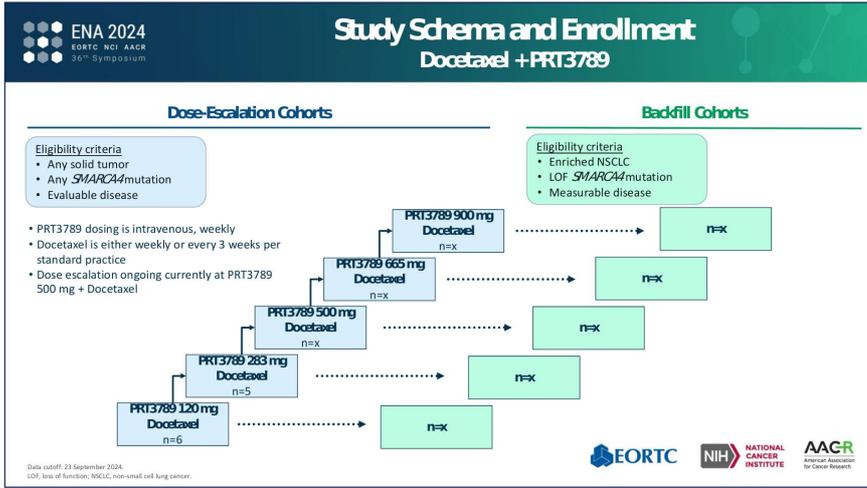
Data cutoff: 23 September 2024

As reported by Alessi *et al.*, the objective response rate (ORR) for first-line *SMARCA4*-mutated NSCLC treated with chemoimmunotherapy was 21.9% <sup>1</sup>

At doses ≥ 283 mg, as monotherapy, an interim ORR of 22.2% was observed in NSCLC patients with Class I *SMARCA4*-mutations

# PRT3789-01: Docetaxel Combination Study Schema

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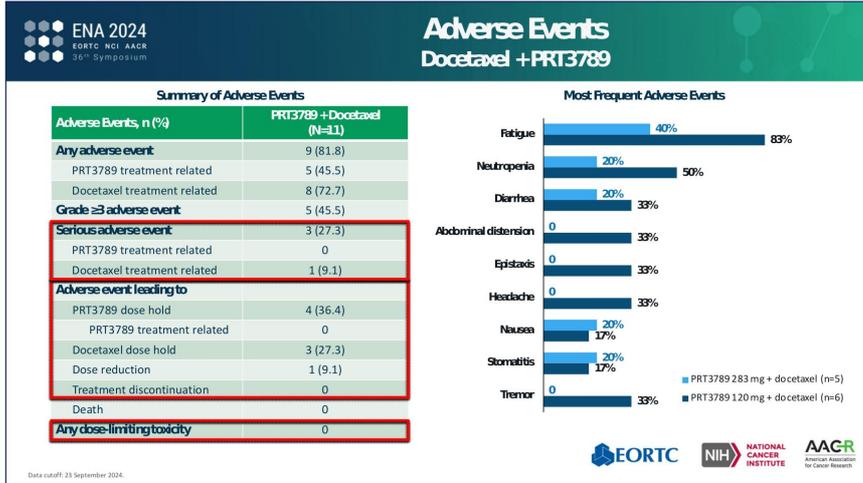
At time of data cutoff, 11 patients treated at 120 mg (n=6) and 283 mg (n=5) were evaluable for preliminary safety and PK assessment

Enrollment continues with no dose limiting toxicities observed to date and is now enrolling at 500 mg

Backfill cohorts enriched for NSCLC and Class I LOF mutations are also enrolling

# PRT3789-01: Preliminary Safety and Adverse Event Summary in Combination with Docetaxel

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In combination with docetaxel, PRT3789 was generally well tolerated at doses studied with no treatment related SAEs or dose-limiting toxicities reported

Most frequent treatment emergent AEs of any grade included fatigue, neutropenia and diarrhea

# PRT3789-01: Preliminary PK Assessment in Combination with Docetaxel

ENA 2024  
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36<sup>th</sup> Symposium

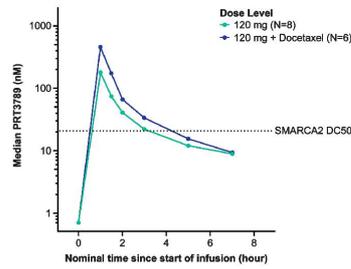
## Pharmacokinetics of PRT3789 + Docetaxel

- Preliminary PK data is available from 6 patients in the 120 mg combination cohort
- PRT3789 PK in combination with docetaxel appears to be consistent with monotherapy at 120 mg

Mean (SD) of PK PRT3789 parameters

Cohort	N	C <sub>max</sub> (nM)	AUC <sub>0-24</sub> (h·nM)	Half-life (hour)
120 mg combination	6	645 (546)	765 (633)	2.27 (0.46)
120 mg monotherapy	8	564 (734)	797 (821)	2.30 (0.48)

Median Concentration Time on CID1



AUC<sub>0-24</sub>, area under the curve from the time of dosing to the last measurable concentration; C<sub>max</sub>, maximum concentration; D, day; DC50, half-maximal degradation concentration; PK, pharmacokinetic; SD, standard deviation.



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At time of data cutoff, preliminary PK data was available from 6 patients in the 120 mg combination cohort

PRT3789 PK in combination with docetaxel appears to be consistent with monotherapy at 120 mg

Early signs of anti-tumor activity reported by investigators

Additional data to be presented at a major medical meeting in 2025

# What's Next for PRT3789?

## '3789 Monotherapy Dose Confirmation

- Currently enrolling patients in dose escalation cohort 10 (665 mg QW)
- Backfill cohorts continue to enroll
  - Enriching for NSCLC and esophageal cancer w/ Class I LOF mutations
- Expecting dose confirmation by YE24
- Additional information on clinical activity at higher doses to be presented in 2025

## '3789 + Docetaxel

- Docetaxel combination cohorts continue to enroll
- Goal is to assess safety and clinical activity in combination
- Docetaxel is the chemotherapy most often used in 2L+ NSCLC
- Seeking to improve upon poor outcomes observed with current standard of care

## '3789 + KEYTRUDA®

- Phase 2 pembrolizumab combination trial is initiated
- Subject of collaboration agreement with Merck
- Goal is to assess safety and clinical activity in combination

### '3789 Program

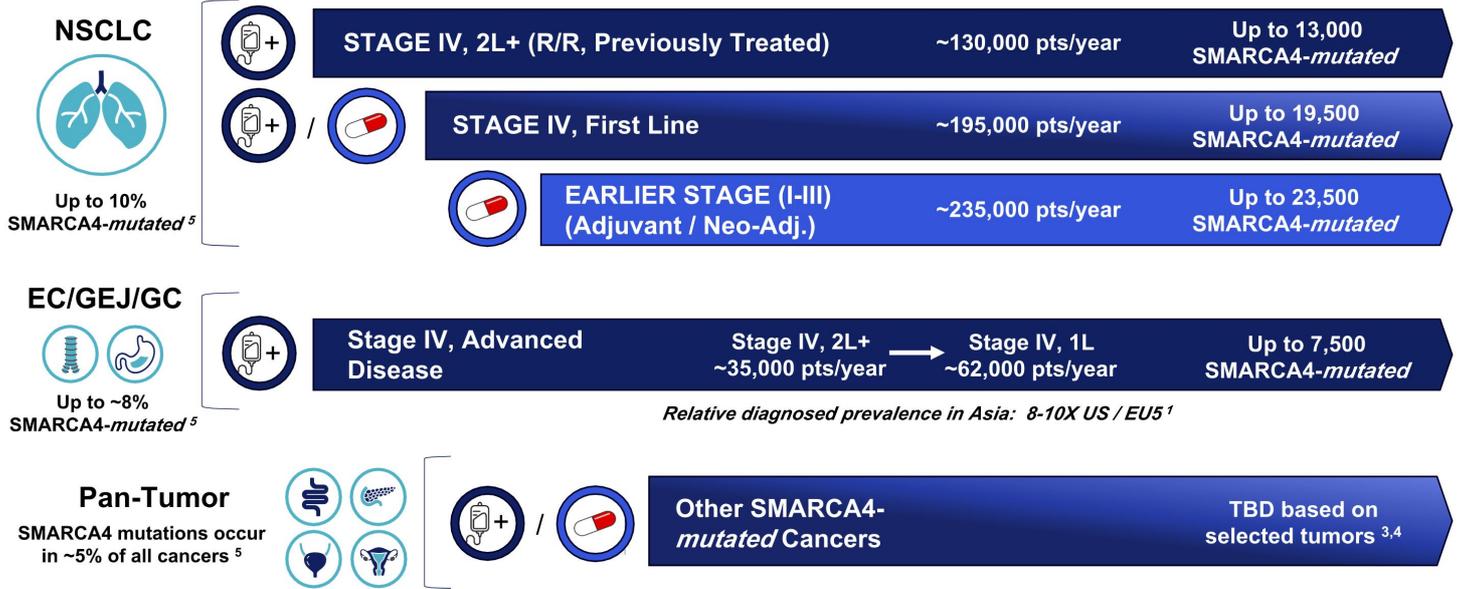
#### Priorities:

- Confirm biologically active dose as monotherapy
- Further characterize activity in Class 1 (LOF) vs. Class 2 patients at biologically active doses
- Share initial clinical activity data on combination with docetaxel in 2025

KEYTRUDA® is a registered trademark of Merck Sharp & Dohme LLC, a subsidiary of Merck & Co., Inc., Rahway, NJ, USA.  
LOF = "Loss-of-function"; QW, once weekly; YE, year end; NSCLC, non-small cell lung cancer; 2L+, second-line and beyond.

# Prelude's SMARCA2 Degradar Portfolio Addresses a Significant Unmet Need

## Potential Addressable Patient Populations US and EU5<sup>1-5</sup>

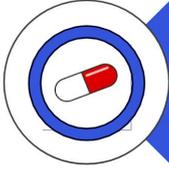


US & EU5 only (2030 proj.); <sup>1</sup> GlobalData (SEER), Earlier Stage (I-III) includes incidence only, Stage IV includes drug-treated prevalence only, with progression from earlier stages; all three factor-out patients treated with targeted therapies for driver mutations; <sup>2</sup> Datamonitor 2023 Lung Cancer Report; <sup>3</sup> Cerner CancerMpaact Tumor Type Reports 2024  
<sup>4</sup> Schoenfeld et al. *Clin Cancer Res.* (2020); 26(21):5701-5708. <sup>5</sup> Dagogo-Jack et al. *J Thorac Oncol.* (2020); 15(5):766-776.; Analysis on File.

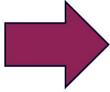
# Expanding Our Portfolio of SMARCA-Targeted Precision Medicines



**Lead SMARCA2 Degrader (PRT3789)**



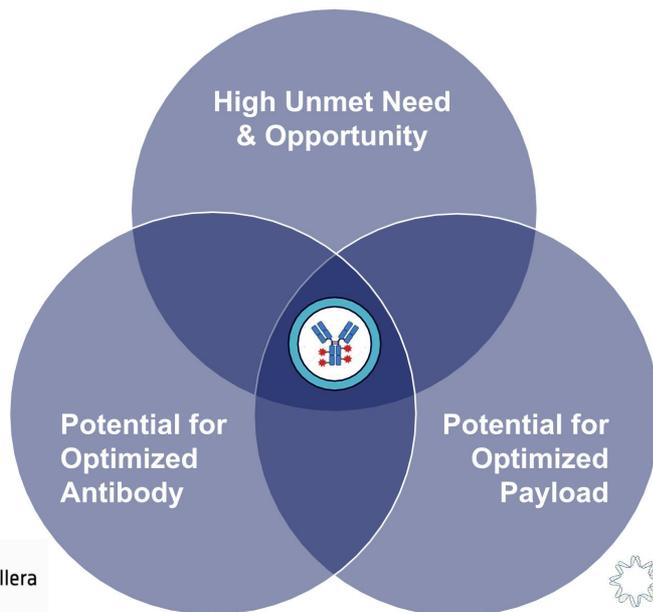
**Oral SMARCA2 Degrader (PRT7732)**



**Precision ADCs with SMARCA2/4 Degrader Payload**

- Cancers highly sensitive to SMARCA dysregulation
- Independent of SMARCA4 mutation status
- Initial focus of Prelude/AbCellera collaboration

## Together, Prelude and AbCellera Are Creating Novel, First-in-Class Precision ADCs



\* Antibody target and tumor type(s) for initial candidates remain undisclosed at this time

### 2024 Triple Meeting Update

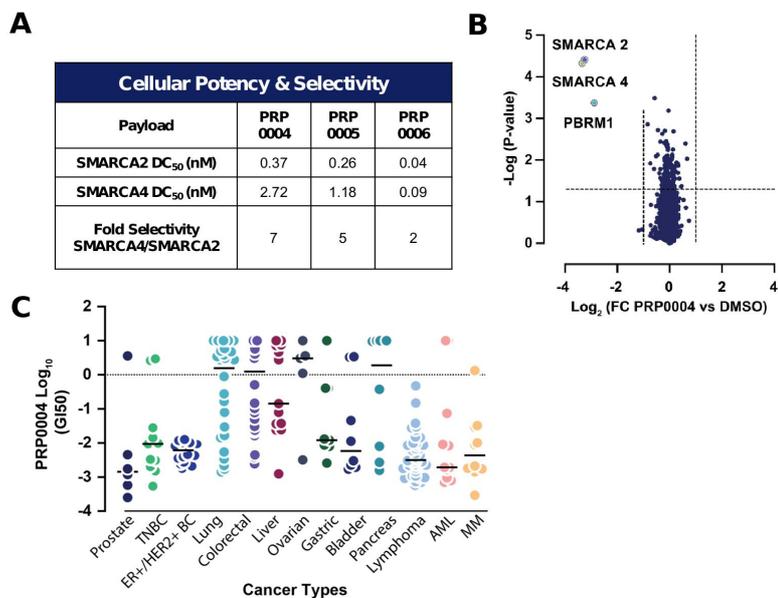
Data presented describe the first preclinical proof-of-concept of a novel, highly potent SMARCA2/4 dual degrader as a "Precision Payload" conjugated to multiple antibodies

Prelude's SMARCA2/4 dual degraders have shown picomolar potency with potential for increased efficacy, selectivity and improved therapeutic index

Precision ADCs have potential to expand the reach of SMARCA degrader technology to cancers without SMARCA4 mutations

# Identification of Selective SMARCA2/4 Dual Degraders with Potent Anti-Cancer Activity

2024 Triple Meeting Update



(A) SMARCA2/4 degradation potency of 3 payloads in a HeLa HiBiT cell-based assay. (B) Global proteomics analysis following treatment of LNCaP human prostate cancer cells with 25 nM PRP0004 for 1h. (C) GI<sub>50</sub> of a panel of cancer cell lines treated with PRP0004, assessed by CellTiter-Glo® assay.

Carter J., *et al.*, 2024 EORTC, NCI, AACR Symposium Poster (<http://www.preludetx.com/science/publications>)

Prelude has optimized several highly potent and selective SMARCA2/4 dual degraders for use as novel payloads in degrader antibody conjugates (DACs)

PRP0004 is a potent SMARCA2/4 dual degrader that is highly selective for SMARCA2 and SMARCA4 across the proteome

PRP0004 robustly inhibits cancer growth and induces cell death across a range of cancer cell lines tested

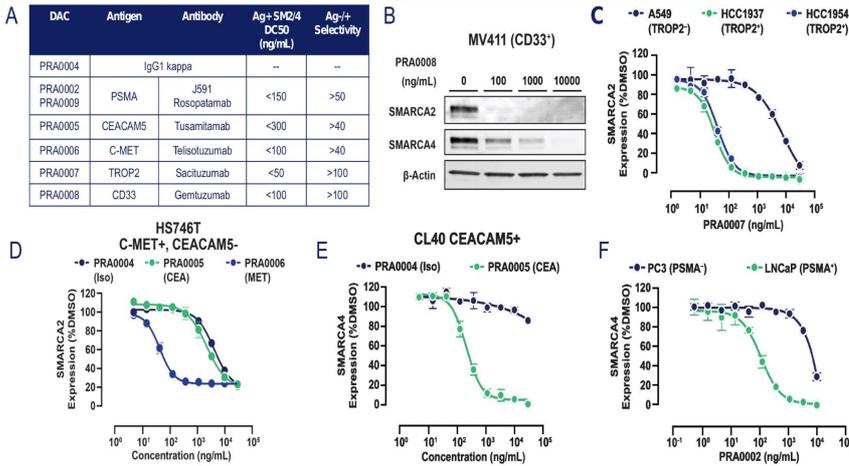
# Conjugation of Clinically-Validated Antibodies to SMARCA2/4 Degradar Payloads Drives Antigen-Dependent Internalization and Target Engagement

2024 Triple Meeting Update

Conjugation of PRP0004 to clinically-validated antibodies including PSMA, CEACAM5, C-MET, TROP2, and CD33

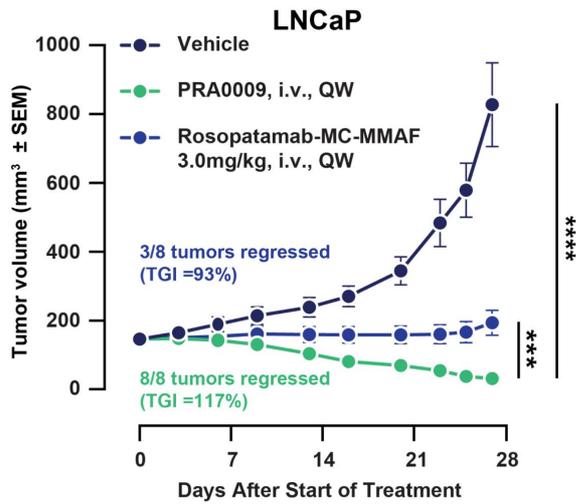
These DACs demonstrated potent and antigen-selective internalization and target engagement across multiple cancer types

Prostate cancer was amongst the most sensitive cell lines to SMARCA2/4 degradation rationalizing the use of PSMA-targeting antibodies for further proof-of-concept studies



Carter J., et al., 2024 EORTC, NCI, AACR Symposium Poster (<http://www.preludetx.com/science/publications>)

# Anti-PSMA SMARCA2/4 DAC Demonstrated Tumor Regression and Significantly Better Efficacy Compared to a Traditional PSMA-Targeted Cytotoxic ADC



Carter J., et al., 2024 EORTC, NCI, AACR Symposium Poster (<http://www.preludetx.com/science/publications>)

2024 Triple Meeting Update

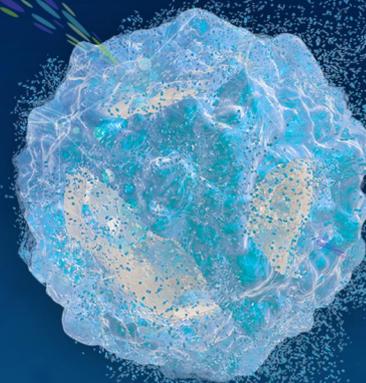
Anti-PSMA SMARCA2/4 DACs demonstrated robust target engagement and antigen-dependent efficacy in xenograft models while being well-tolerated

These data highlight the potential of utilizing a SMARCA2/4 degrader payload to achieve maximal target degradation in tumors while sparing healthy tissues

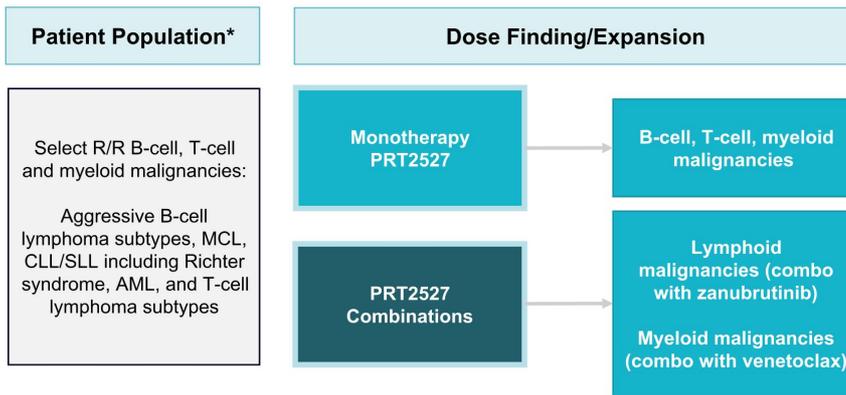
Precision ADCs have the potential to expand the therapeutic reach of SMARCA2/4 degraders to patients without SMARCA4 mutations

# Highly Selective CDK9 Inhibitor

PRT2527



# Phase 1 Trial of PRT2527 in Hematologic Malignancies is Underway



## What to Expect in Q4 2024

Initial safety and tolerability data for monotherapy dose escalation cohorts in hematologic malignancies

Initial assessment of clinical activity in B-cell malignancies as monotherapy

Initial clinical data with zanubrutinib from combination cohort

**Goal: Establish Initial PoC and Identify Mono and/or Combination Recommended Doses for Expansion**

\*R/R disease following: At least 1 prior systemic therapy for aggressive BCL subtypes, MCL and Richter's syndrome; At least 2 prior therapies including a BTK inhibitor and venetoclax for CLL.

ClinicalTrials.gov Identifier: [NCT05159518](https://clinicaltrials.gov/ct2/show/study/NCT05159518)

# Continued Execution Across Strategic Priorities

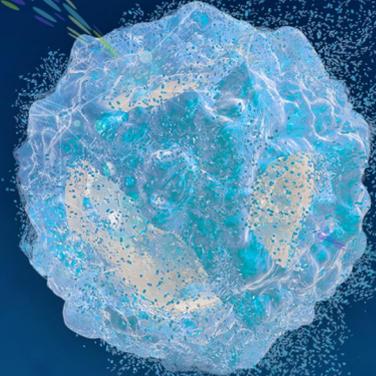
PROGRAM	EXPECTED DELIVERABLE	MILESTONE
<b>Lead IV SMARCA2 Degradar</b> <b>PRT3789</b>	<ul style="list-style-type: none"> <li>Report interim Phase 1 clinical results in 2H 2024 (ESMO &amp; ENA)</li> <li>Initiate Phase 2 trial in combination with pembrolizumab</li> <li>Complete monotherapy escalation and fully enroll backfill cohorts</li> </ul>	<ul style="list-style-type: none"> <li>Complete</li> <li>Complete</li> <li>YE 2024</li> </ul>
<b>Oral SMARCA2 Degradar</b> <b>PRT7732</b>	<ul style="list-style-type: none"> <li>Investigational New Drug (IND) authorization from FDA</li> <li>Initiate Phase 1 in patients with SMARCA4 mutations</li> <li>Report interim Phase 1 clinical results</li> </ul>	<ul style="list-style-type: none"> <li>Complete</li> <li>Complete</li> <li>2025</li> </ul>
<b>Selective CDK9 Inhibitor</b> <b>PRT2527</b>	<ul style="list-style-type: none"> <li>Initiate zanubrutinib combination study</li> <li>Initiate myeloid cohort in the existing phase 1 study</li> <li>Complete monotherapy dose escalation in B-cell malignancies</li> <li>Report interim phase 1 clinical results in 2024</li> </ul>	<ul style="list-style-type: none"> <li>Complete</li> <li>Complete</li> <li>2H 2024</li> <li>Q4 2024</li> </ul>
<b>Discovery Engine</b> <b>Precision ADCs &amp; Other</b>	<ul style="list-style-type: none"> <li>Advance next first-in-class, novel small molecule discovery candidate</li> <li>Advance first SMARCA2/4 Precision ADC in partnership with AbCellera</li> <li>Advance second Precision ADC program in partnership with AbCellera</li> </ul>	<ul style="list-style-type: none"> <li>2024</li> <li>2025</li> <li>2025</li> </ul>

**Cash, cash equivalents and marketable securities of \$153.6 Million as of 9/30/2024**

**Thank You**

**Contact Us:**

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**SVP, Investor Relations**  
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- **Highly Selective SMARCA2 Degradar Program**
  - Discovery Effort & Oral Degradar Program (PRT7732)
  - Preclinical Rationale for Combinations (**2024 EORTC-NCI-AACR Symposium Update**)
  - Current Treatment Paradigm & Testing Landscape
- **Precision ADCs**
  - **First Preclinical Proof-of-Concept Data Presented at 2024 EORTC-NCI-AACR Symposium**
  - Overview of Prelude's Precision ADC Program and Next Steps
- **CDK9 Program for Hematologic Malignancies (PRT2527)**
  - Background, Unmet Need and Scientific Rationale
  - Early Clinical Safety and PK/PD Data from Phase I Study in Solid Tumors
  - Interim Phase I Update Planned for Major Medical Meeting in Q4 2024

**BOLD** = New data included in Appendix with this update

## When it Comes to Targeting SMARCA2, Degraders Offer Distinct Advantages

	Inhibitors	Degraders
Potency	✓	✓
High Selectivity	✗	✓
Extended PD	✗	✓
Oral Bioavailability	✓	✓

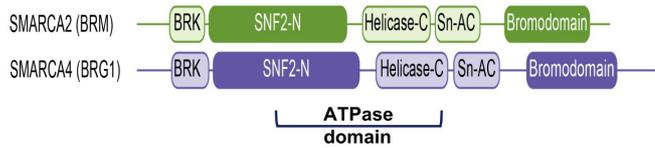
Early attempts at achieving both potency and selectivity with inhibitor approaches had challenges

Inhibitors do not degrade the target and need to be dosed at levels that retain IC<sub>90</sub> coverage continuously

Degraders demonstrate sustained PD effect as it takes 48-72h for SMARCA2 to resynthesize

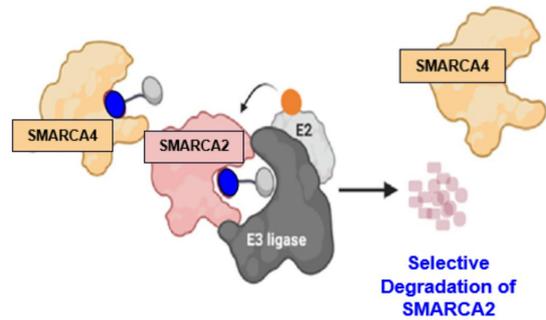
# Selectively Targeting SMARCA2 Has Been a Significant Challenge for Industry

## Selective SMARCA2 Inhibition is an Unmet Medicinal Chemistry Challenge



- **Bromodomain Binders**
  - Non-selective and inactive in SMARCA4 mutated cancer cells<sup>1</sup>
- **ATPase Inhibitors**
  - Inhibitors show low selectivity for SMARCA2 in cell proliferation assays (<10 fold<sup>2</sup> and ~33 fold<sup>3</sup>)

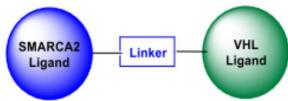
## Prelude's Targeted Protein Degradation (TPD) Approach



- **SMARCA2 Selective Degradation** is possible through differences in ternary complexes and subsequent ubiquitination of unique lysine residues

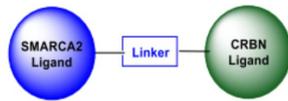
<sup>1</sup> Vangamudi et al, Cancer Res. 2015 (Pfizer); Taylor et al, J. Med. Chem 2022 (Genentech) <sup>2</sup> Papillon et al, J. Med. Chem 2018 (Novartis) <sup>3</sup> AACR 2024 (Foghorn/Lilly)

## Parallel VHL- and CRBN-based SMARCA2 Degradator Programs



**PRT3789**  
(IV or SC formulation)

- **IV or SC Candidate - VHL-TPDs** provided an expedited path to potential clinical development with QW dosing



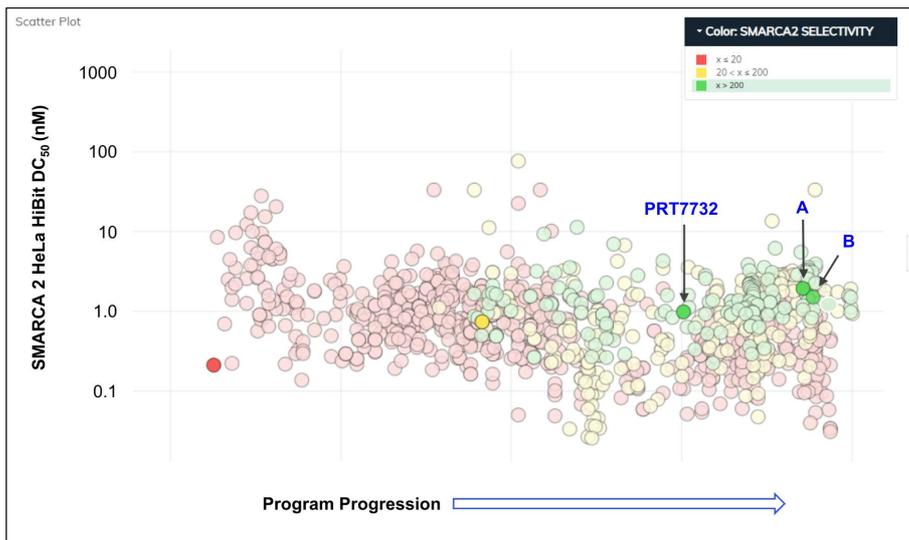
**PRT7732**  
(Oral Candidate)

- **Oral Candidate - CRBN-TPDs** provided oral candidates, but required extensive lead optimization with balancing of potency, selectivity and oral PK properties

Our lead IV and oral clinical candidates both have sub-nanomolar degradation potencies and very high selectivity (>1000 fold) for SMARCA2 over SMARCA4

# Our SMARCA2 Oral Degradar Program Progressed Rapidly and Systematically

## SMARCA2 HiBit $DC_{50}$ & SMARCA4 Selectivity



Note: Inactive & weakly potent compounds removed for clarity

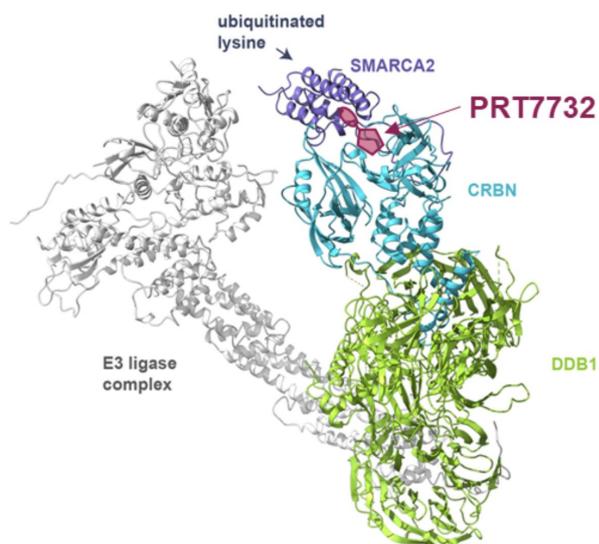
Solving for potency, selectivity and oral bioavailability was a challenge

PRT7732: Lead Oral Candidate with >3000-fold Selectivity

A and B: Two additional structurally distinct oral back-up candidates

## PRT7732: Our Lead Oral SMARCA2 Degradator

### Tertiary Complex of SMARCA2/ PRT7732/CRBN-DDB1 E3 Ligase



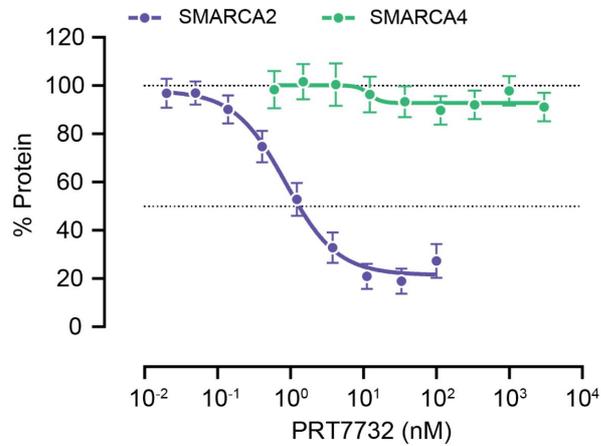
PRT7732 binds to the SMARCA2 bromodomain and CRBN/DDB1 E3 ligase complex

PRT7732 has been shown to catalyze the polyubiquitination of unique lysine residues expressed only in SMARCA2 and not SMARCA4

Unique conformational bias promotes selective ubiquitination and degradation of SMARCA2

# PRT7732 is Highly Potent and Orally Bioavailable With Near-Absolute Selectivity for SMARCA2

Preclinical Assay	PRT7732
SMARCA2 Degradation (nM)	0.98
Selectivity: Degradation (SMARCA4 / SMARCA2)	>3000 fold
Selectivity: Cell Proliferation (SMARCA4 / SMARCA2)	>1000 fold*



\* Based on highest concentration tested

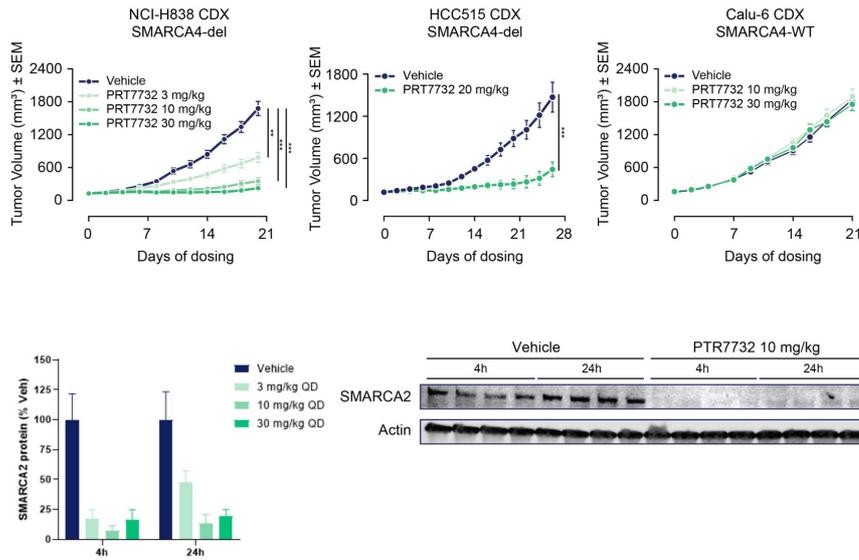
Shvartsbart, K. Ito et al., AACR Poster, April 2024. (<http://www.preludetx.com/science/publications>)

Sub-nanomolar SMARCA2 degradation potency

Near-absolute cellular selectivity for SMARCA2 vs SMARCA4 (>3000 fold) in HiBit cell lines and >1000-fold in cell proliferation assays

Good oral bioavailability observed across species supporting once-daily projected human dose

# PRT7732 Has Significant Anti-Tumor Activity in SMARCA4-Deficient Cancer Xenograft Models



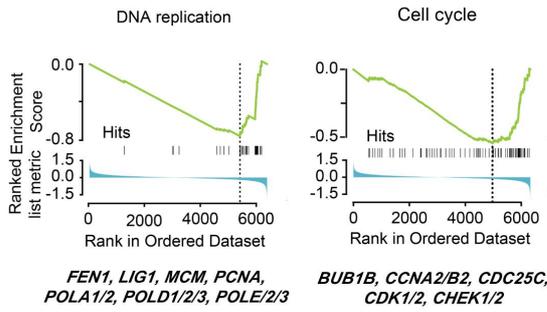
Shvartsbart, K. Ito et al., AACR Poster, April 2024. (<http://www.preludetx.com/science/publications>)

Daily oral administration of PRT7732 demonstrates anti-tumor activity in SMARCA4-deficient but not SMARCA4 wild type tumors

PRT7732 rapidly decreases SMARCA2 protein levels in tumor xenograft models at low doses

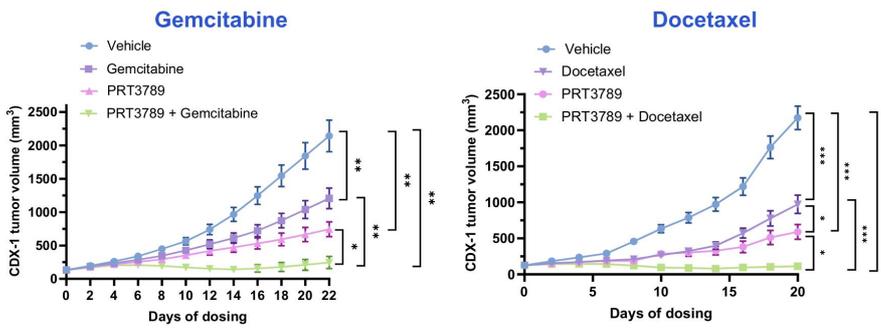
Preclinical data supported advancing PRT7732 to Phase I with once-daily dosing

# PRT3789 Demonstrates Potential for Synergy with Chemotherapy and Apoptosis-Inducing Agents



Several oncogenic gene sets regulated by PRT3789

Supports combination strategies with both cytotoxic and apoptosis-inducing agents (*e.g.*, RAS)

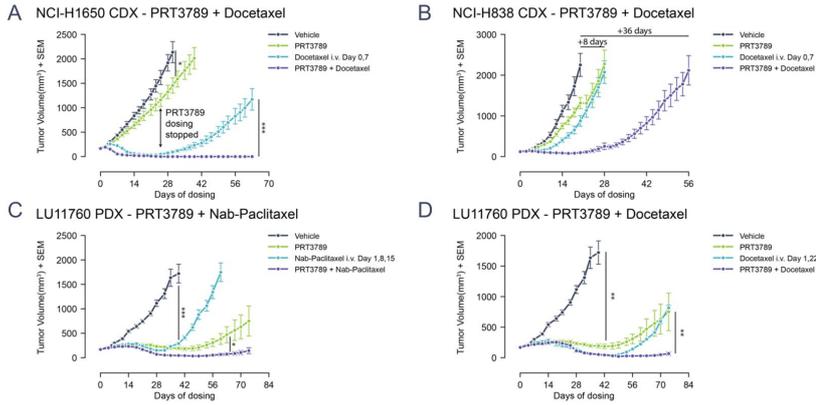


*In vivo* CDX models show strong tumor regression in combination with gemcitabine or docetaxel

AACR 2022, 2023 Posters (<http://www.preludetx.com/science/publications>)

# PRT3789 + Taxanes Induce Durable Regressions in SMARCA4-mutated NSCLC CDX & PDX Models

2024 Triple Meeting Update

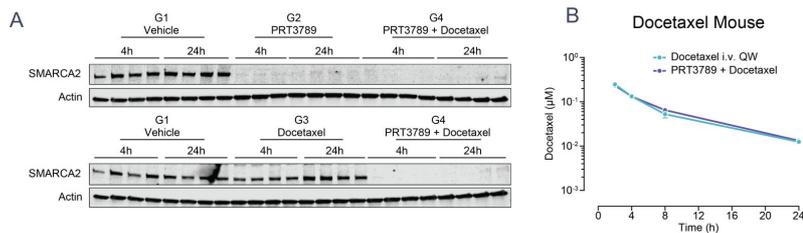


Intravenous (i.v.) or subcutaneous (s.c.) administration of PRT3789 in combination with docetaxel or nab-paclitaxel (Abraxane®) induced tumor regression and extended tumor growth delay (TGD) in the NCI-H1650 CDX model (A), NCI-H838 CDX model (B), and a NSCLC PDX tumor model (C-D) in mice at well-tolerated doses. \*P<0.05 \*\*P<0.01 \*\*\*P<0.001, versus vehicle (two-tailed Mann-Whitney test).

PRT3789 enhances chemotherapy efficacy as shown in NSCLC models with SMARCA4 mutations, including both cell line-derived and patient-derived xenografts

PRT3789 significantly improved the efficacy of standard-of-care taxane chemotherapy agents (docetaxel or nab-paclitaxel)

# Preclinical PK/PD Data Shows No Adverse Drug-Drug Interaction Between PRT3789 and Taxanes



**(A)** Tumor PD (SMARCA2 protein) was analyzed in samples from NCI-H838 efficacy studies by Western blot. PRT3789 treatment resulted in complete degradation of SMARCA2 protein in PRT3789 monotherapy (G2) and PRT3789 + docetaxel combination groups (G4). In contrast, taxanes did not interfere with the SMARCA2 degradation induced by PRT3789 *in vivo* as demonstrated by docetaxel monotherapy group (G3) and PRT3789 + docetaxel combination groups (G4). PK analysis of mouse plasma revealed no adverse drug-drug interactions (DDI) between PRT3789 and docetaxel. **(B)** Exposure of docetaxel was not affected by combination with PRT3789.

2024 Triple Meeting Update

**PRT3789 treatment results in complete degradation of SMARCA2 protein as both monotherapy and in combination with docetaxel**

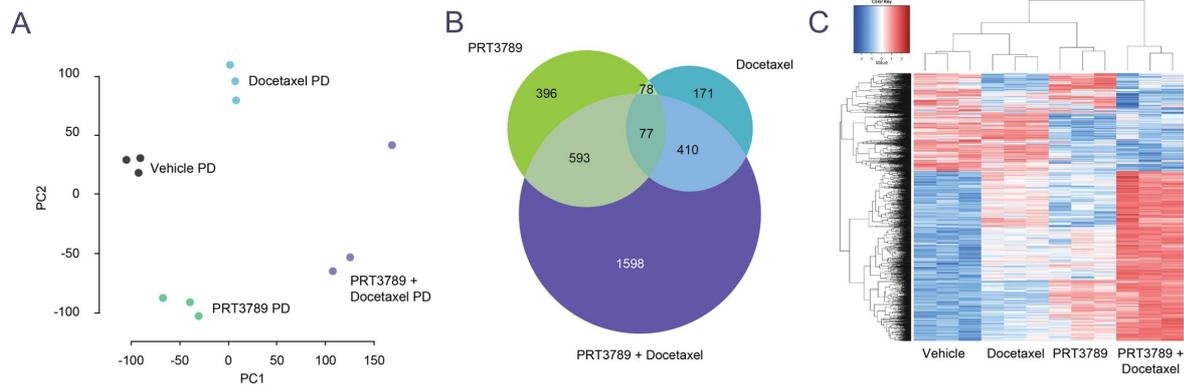
**Taxanes do not interfere with the SMARCA2 degradation induced by PRT3789 *in vivo***

**PK analysis of mouse plasma reveals no adverse drug-drug interactions (DDIs) between PRT3789 and docetaxel**

**Exposure of docetaxel is not affected by combination with PRT3789**

# PRT3789 and Docetaxel Regulate Distinct Pathways Involved in Tumor Cell Growth and Apoptosis

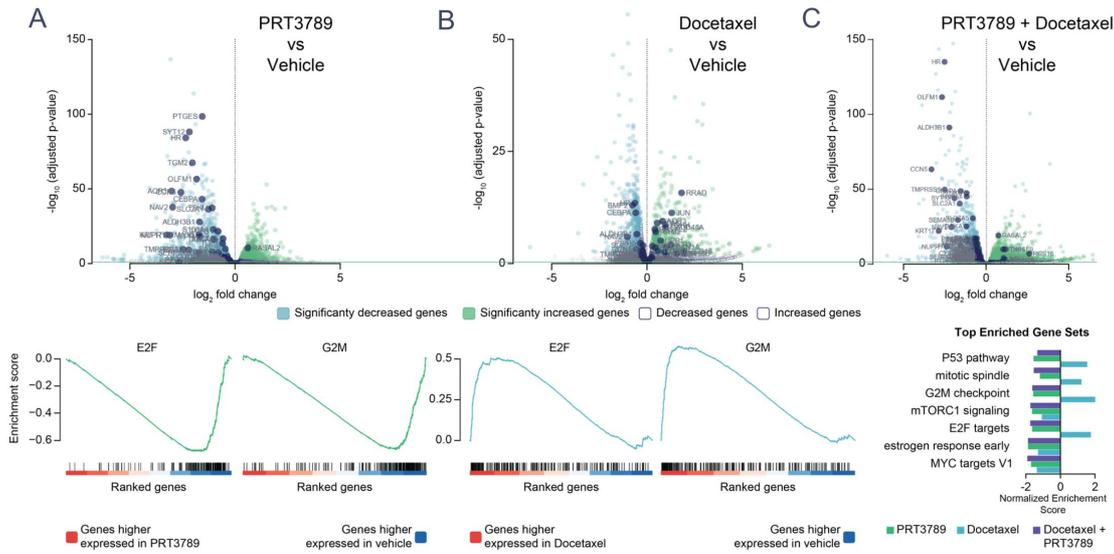
2024 Triple Meeting Update



RNA-sequencing was conducted on SMARCA4-mutated NCI-H838 tumor tissues treated with PRT3789 and/or docetaxel for one week. **(A)** Principal components analysis (PCA)<sup>6</sup> was calculated by applying the `prcomp()` R function to counts per million (CPM)-normalized values for all 43,236 targets in the experiment. **(B)** Overlap genes analysis-differential genes were defined as genes with an adjusted p-value of less than or equal to 0.05, and a fold change greater than 1.5 or less than 0.5. **(C)** Clustering analysis- features were filtered using an adjusted p-value  $\leq 0.01$  and  $\log_2$  fold change threshold of 1. Heatmap shows counts per million (CPM)-normalized,  $\log_2$ -transformed, and zscore-transformed values. Analysis performed using Pluto (<https://pluto.bio>).

# PRT3789 Counteracts Docetaxel-Induced Cell Cycle Activation, Resulting in Enhanced Efficacy of the Combination

2024 Triple Meeting Update



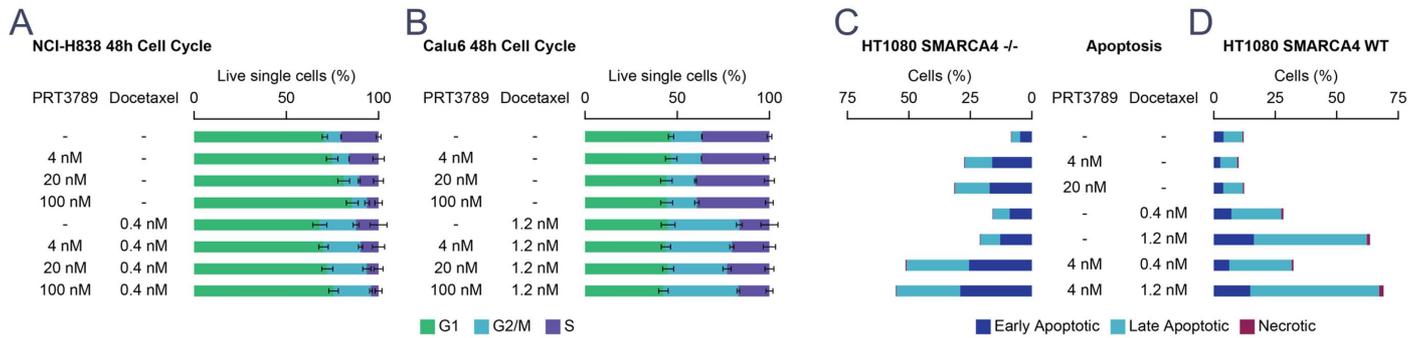
Differential expression analysis was performed comparing the groups: **(A)** PRT3789 vs Vehicle, **(B)** docetaxel vs Vehicle, **(C)** PRT3789+ docetaxel vs Vehicle. Differential expression analysis was performed with the DESeq2 R package<sup>8</sup> and Log<sub>2</sub> fold change was calculated for the above comparisons. Volcano plots showing the log<sub>2</sub> fold change of each gene on the x-axis and the -log<sub>10</sub>(adjusted p-value) on the y-axis.

The sign(log<sub>2</sub> fold change) \* -log<sub>10</sub>(p-value) from the above differential expression comparisons was used to rank genes. Hallmarks gene set collection from the Molecular Signatures Database (MSigDB)<sup>7,9</sup> was curated using the msigdb R package<sup>9</sup>.

Analysis performed using Pluto (<https://pluto.bio>).

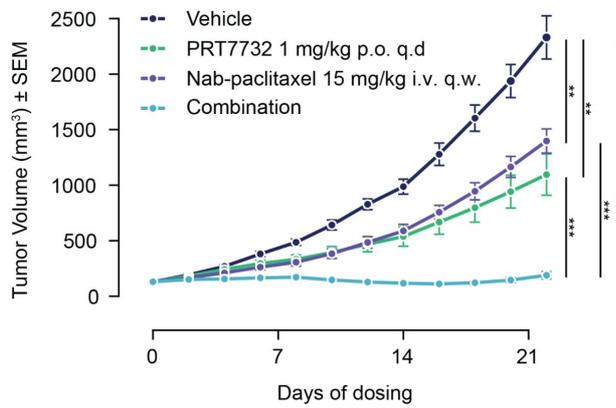
# PRT3789 and Docetaxel Combination Induces a Dual G1 and G2/M Arrest and Enhances Apoptosis in SMARCA4-deleted Cells

2024 Triple Meeting Update



Cell cycle analysis was performed using the Invitrogen™ Click-iT™ EdU Pacific Blue™ Flow Cytometry Assay Kit on the SMARCA4-del NSCLC cell line NCI-H838 (A) and the SMARCA4-WT NSCLC cell line Calu-6 (B) following 48 hr PRT3789 and/or docetaxel for treatment. The isogenic SMARCA4 KO (C) and SMARCA4 WT (D) HT1080 cell lines were dosed with PRT3789 and/or docetaxel for 48 hrs. The Pacific Blue™ Annexin V/SYTOX™ AADvanced™ Apoptosis Kit was used to determine the apoptotic cell population. Early apoptotic cells were defined as SYTOX-/annexin V+. Late apoptotic cells were defined as SYTOX+/annexin V+.

## PRT7732 Also Shows High Potential for Synergy With Other Common Anti-Cancer Agents

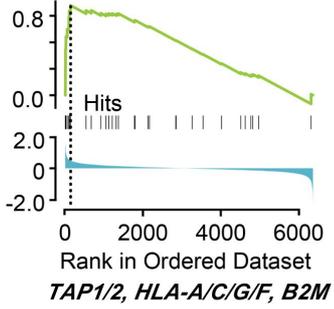


Oral daily administration of PRT7732 in combination with nab-paclitaxel induces tumor regressions in murine tumor xenograft models



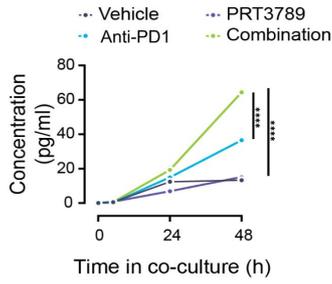
# Preclinical Data for PRT3789 Support Rationale for Anti-PD1 Combination

## PRT3789 Upregulates Genes for Antigen Processing and Presentation

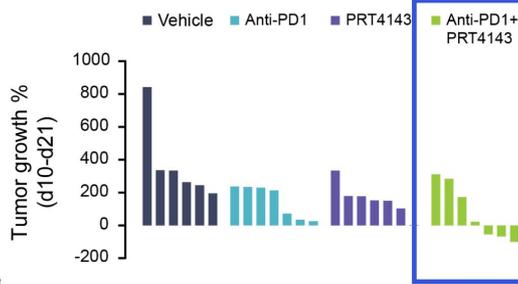
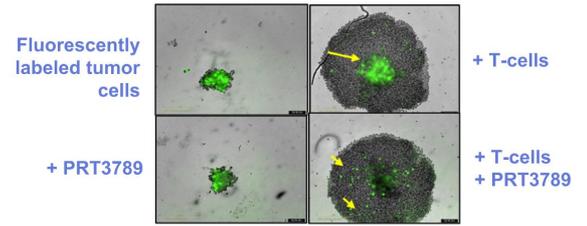


**SMARCA2 Degradator + Anti-PD1 Demonstrates Tumor Regression *In Vivo***

## PRT3789 Increases IFN-g Levels in Combination with anti-PD1 *In Vitro*



## PRT3789 Promotes T-cell mediated Tumor Cell Killing *In Vitro*



## Prelude Has Initiated a Phase 2 Combination Study of PRT3789 + Pembrolizumab



### **Prelude Therapeutics Announces Clinical Collaboration with Merck to Evaluate PRT3789 in Combination with KEYTRUDA® (pembrolizumab) in Patients with SMARCA4-Mutated Cancers**

*Combining a first-in-class, highly selective SMARCA2 degrader with an anti-PD-1 therapy may potentially enhance the anti-tumor activity of either agent because of the complementary nature of the two mechanisms.*

*Prelude will sponsor the clinical trial and Merck will provide KEYTRUDA.*

WILMINGTON, Del., July 9, 2024 (GLOBE NEWSWIRE) – Prelude Therapeutics Incorporated (Nasdaq: PRLD) (“Prelude” or the “Company”), a clinical-stage precision oncology company.

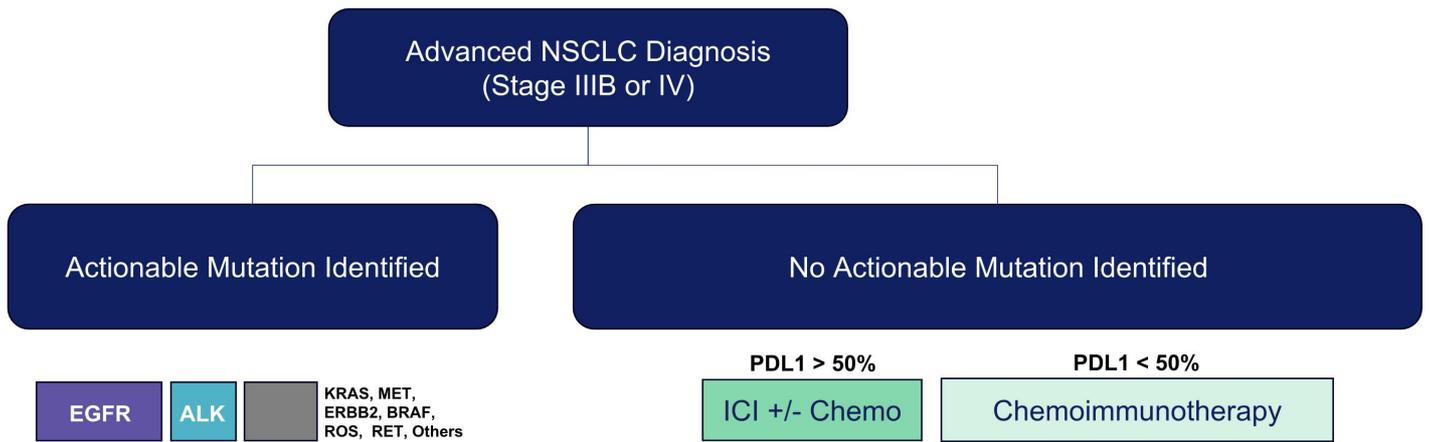
Preclinical evidence provides rationale for enhanced efficacy with PRT3789 and anti-PD1 therapy combination

PRT3789 upregulates genes encoding antigen processing and presentation machinery

Trial will explore safety and anti-tumor activity of the combination

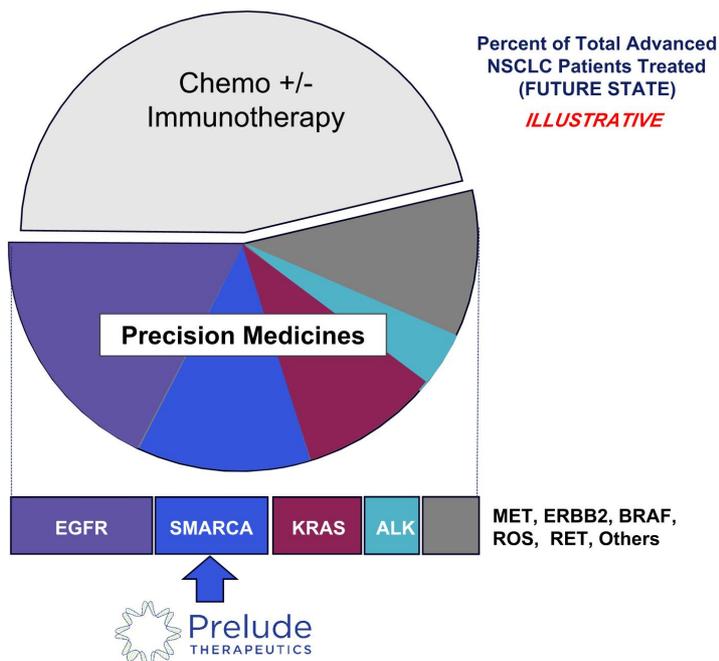
KEYTRUDA® is a registered trademark of Merck Sharp & Dohme LLC, a subsidiary of Merck & Co., Inc., Rahway, NJ, USA.

# Majority of Advanced NSCLC Patients Are Treated with Chemoimmunotherapy



Note: Simplified schematic based on current ESMO and NCCN Clinical Practice Guidelines and current clinical experience; could include combination treatments with bevacizumab, pemetrexed, nab-paclitaxel and others

# SMARCA2 Degraders Have Potential to Expand Precision Medicine Access for NSCLC Patients



<sup>1</sup> Based on mutational prevalence; Source for current relative patient share: Datamonitor 2023 Lung Cancer Report

Potentially more patients than ALK, MET, BRAF, ROS and RET combined <sup>1</sup>

Reinforces need for comprehensive genomic profiling

SMARCA4 mutations already included on most commonly used commercial NGS testing panels

More patients tested = More patients eligible

# APPENDIX

- **Highly Selective SMARCA2 Degradar Program**
  - Discovery Effort & Oral Degradar Program (PRT7732)
  - Preclinical Rationale for Combinations (**2024 EORTC-NCI-AACR Symposium Update**)
  - Current Treatment Paradigm & Testing Landscape
- **Precision ADCs**
  - **First Preclinical Proof-of-Concept Data Presented at 2024 EORTC-NCI-AACR Symposium**
  - Overview of Prelude's Precision ADC Program and Next Steps
- **CDK9 Program for Hematologic Malignancies (PRT2527)**
  - Background, Unmet Need and Scientific Rationale
  - Early Clinical Safety and PK/PD Data from Phase I Study in Solid Tumors
  - Interim Phase I Update Planned for Major Medical Meeting in Q4 2024

**BOLD** = New data included in Appendix with this update





## Prelude's Precision ADCs are Designed to Improve the Therapeutic Index Over Traditional ADCs

	ADC	Precision ADC
Potency	✓	✓
Antibody Selectivity	✓	✓
Payload Selectivity	✗	✓
PD Marker for Payload	✗	✓
Therapeutic Index	✗	✓

### Payload Selectivity

Highly potent and cell line selective targeted protein degrader

X

### Antibody Selectivity

Highly selectively antibody that targets cancers that are sensitive to our payload

=

### Precision ADC

Potential for enhanced potency and selectivity of antibody and payload to improve both efficacy and therapeutic index

# Together, Prelude and AbCellera are Creating Novel, First-in-Class Precision ADCs

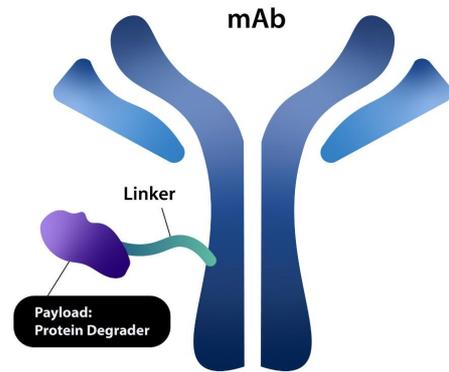


Expertise in chemistry and biology of targeted protein degradation and clinical development capabilities

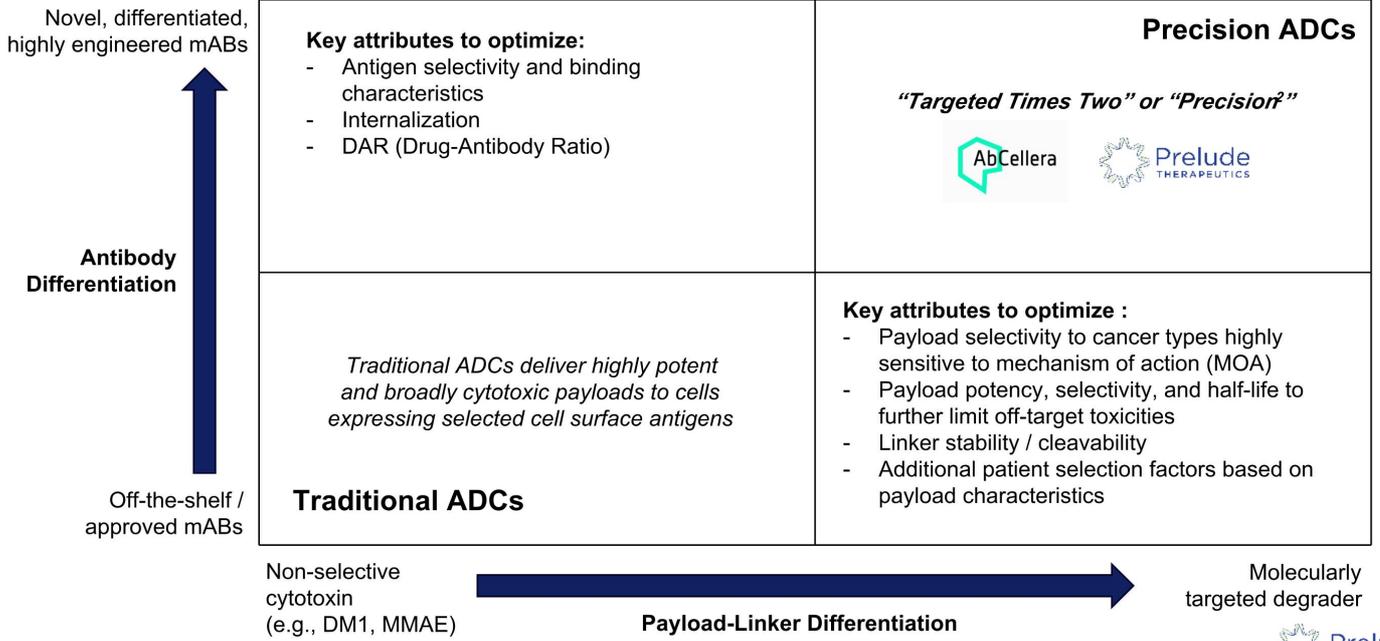


Expertise in antibody discovery, engineering and manufacturing capabilities

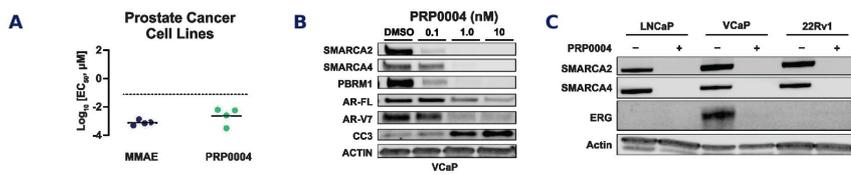
- Multi-year global collaboration to jointly discover, develop and commercialize novel Precision ADCs for up to five programs
- AbCellera will lead manufacturing activities
- Prelude will lead clinical development and global commercialization (AbCellera co-promote option)



# Framework for Precision ADC Differentiation



# SMARCA2/4 Degradator Payload (PRP0004) Induces Apoptosis and Regulates the Expression of Key Oncoprotein Drivers in Prostate Cancer Cells



(A) EC<sub>50</sub> of human prostate cancer cell lines treated with PRP0004 or MMAE for 7-days (CellTiter-Glo® assay). (B) Western blot showing the expression of SMARCA2/4, AR-FL, AR-V7, and cleaved-caspase 3 (CC3) in VCaP cells treated with PRP0004 for 3 days. (C) Western blot showing the expression of ERG following treatment with PRP0004 in cells that express a *TMPRSS2-ERG* fusion.

Carter J., et al., 2024 EORTC-NCI-AACR Symposium Poster (<http://www.preludetx.com/science/publications>)

Triple Meeting Update

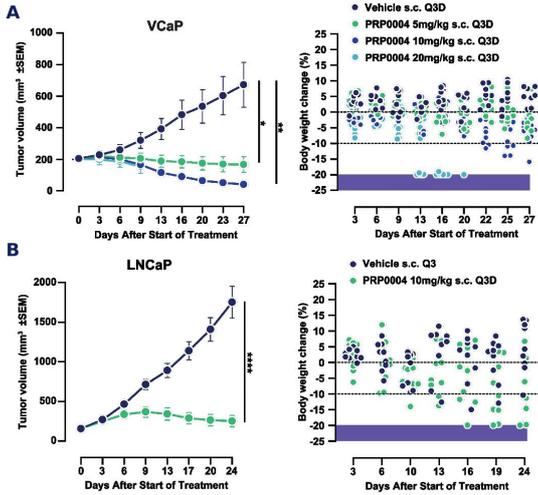
Prostate cancer was amongst the most sensitive cell lines to SMARCA2/4 degradation rationalizing the use of PSMA-targeting antibodies for further proof-of-concept studies

SMARCA2/4 degradation downregulates the expression of several key oncoprotein drivers in prostate cancer cell lines

Selective induction of apoptosis in prostate cancer cell lines with a novel payload could lead to an improved therapeutic index

# SMARCA2/4 Degradar Payload (PRP0004) Administered On Its Own Induces Tumor Regressions in Prostate Cancer Models, But With a Narrow Therapeutic Index

Triple Meeting Update



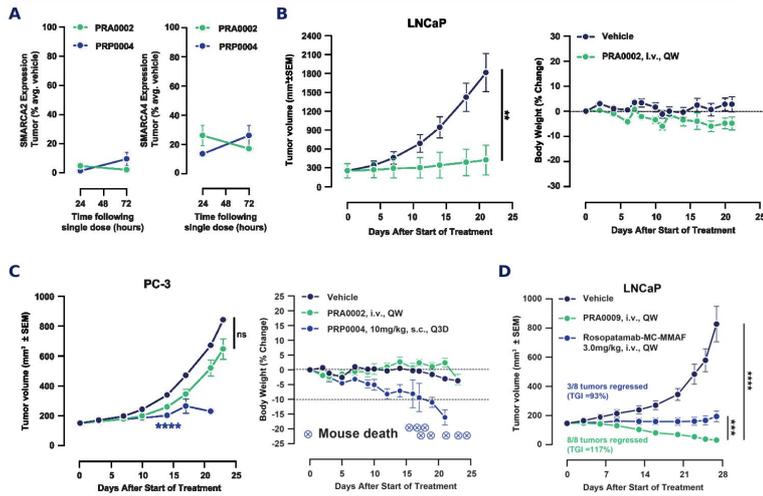
(A) Payload PRP0004 administered s.c. Q3D demonstrated dose-dependent tumor growth inhibition in the human prostate cancer VCaP CDX model. At higher doses, PRP0004 induced tumor regressions but caused time and dose-dependent body weight loss and mouse deaths. \* $P < 0.05$  \*\* $P < 0.01$  versus vehicle (T-test) (B) Payload PRP0004 administered s.c. Q3D induced significant tumor growth inhibition in the human prostate cancer LNCaP CDX model, while leading to delayed body weight loss and mouse death. \*\*\*\* $P < 0.0001$  versus vehicle (T-test).

**On its own, payload PRP0004 demonstrated dose-dependent tumor growth inhibition in human prostate cancer CDX models**

**However, as anticipated, at higher doses, PRP0004 induced tumor regressions but was limited by a narrow therapeutic index**

# Anti-PSMA SMARCA2/4 DACs Demonstrate Robust and Significant Antigen-Selective Tumor Growth Inhibition

2024 Triple Meeting Update



Anti-PSMA SMARCA2/4 DACs were well tolerated and demonstrated robust target engagement and antigen-dependent efficacy in xenograft models

These data highlight the potential of utilizing a SMARCA2/4 degrader payload to achieve maximal target degradation in tumors while sparing healthy tissues

Precision ADCs have the potential to expand the therapeutic reach of SMARCA2/4 degraders to patients without SMARCA4 mutations

(A) SMARCA2/4 protein expression was analyzed in DAC PRA0002 and payload PRP0004-treated LNCaP tumors at the indicated time points following a single dose. Graphs are quantitation of western blots. (B) Weekly i.v. administration of PRA0002 was well-tolerated and demonstrated significant tumor growth inhibition (89%) of PSMA+ LNCaP tumors. (C) Weekly i.v. administration of PRA0002 did not induce significant tumor growth inhibition in PSMA- PC3 tumors, in comparison to PRP0004 which was efficacious, but caused mouse body weight loss and death (D) Weekly i.v. administration of PRA0009 demonstrated tumor regression and significantly better efficacy compared to a PSMA cytotoxic ADC (Rosopitamab-MC-MMAF, DAR2) in LNCaP tumors.

Carter J., et al., 2024 EORTC-NCI-AACR Symposium Poster (<http://www.preludex.com/science/publications>)

## Overview of Prelude's Precision ADC Program and Next Steps

- Degradable Antibody Conjugates (DACs) represent a new frontier in advancing the scientific and clinical potential of antibody drug conjugates (ADCs)
- Prelude is developing DACs with potent SMARCA2/4 dual degraders as payloads on tumor specific antibodies to achieve maximal target degradation in tumors and spare healthy tissues
  - SMARCA2 and SMARCA4 are the core catalytic subunits of SWI/SNF complexes and play a key role in controlling chromatin remodeling and gene expression
  - Targeting SWI/SNF complexes with targeted protein degraders demonstrates robust anti-tumor activity
  - Because either SMARCA2 or SMARCA4 is necessary for normal cellular functions, maximal suppression of both SMARCA2/4 proteins simultaneously is unlikely to be tolerated
  - Prelude's SMARCA2/4 dual degraders have shown picomolar potency with potential for increased efficacy, selectivity and a broader therapeutic index leading to a differentiated safety profile
- Preclinical proof-of-concept has now been presented with novel, highly potent SMARCA2/4 dual degraders conjugated as a "Precision Payloads" to multiple antibodies (PSMA, CEACAM5, TROP-2, C-MET, CD33)
- DACs expand the reach of SMARCA degrader technology to cancers without SMARCA4 mutations
- Work is underway to advance first-in-class DAC development candidates from the program and expand our portfolio of novel degrader payloads

# APPENDIX

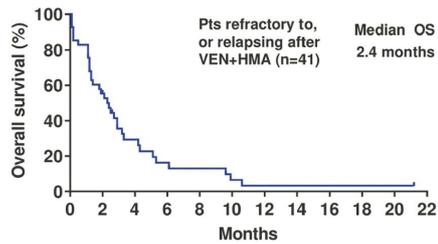
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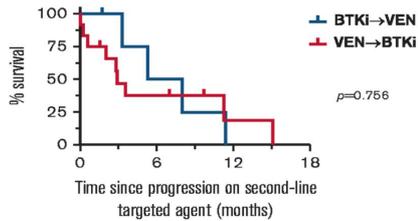


# Patients with Hematologic Malignancies Refractory to Current Treatments Experience Poor Outcomes

## (1) AML



## (2) CLL



After SoC (venetoclax + HMA), AML patients ineligible for intensive therapy have very poor outcomes (mOS of 2.4 months)

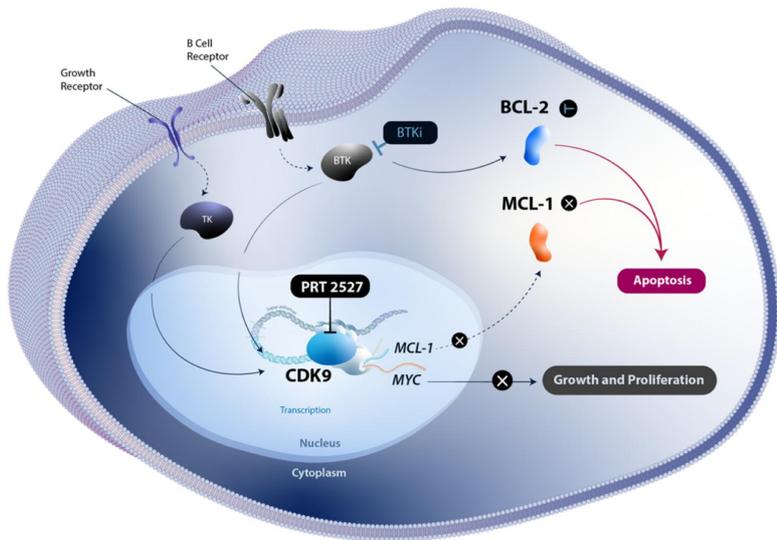
Double class (BTKi and BCL2i) resistant CLL is another population with high unmet need (mOS of 3-5 months)

Source:

1) Maiti A et al. Haematologica 2021. <https://doi.org/10.3324/haematol.2020.252569>

2) Lew TE et al. Blood Advances 2021. <https://doi.org/10.1182/bloodadvances.2021005083>

## CDK9 Inhibition Targets Two Major Validated Pathways (MYC and MCL-1)



CDK9 is the primary transcriptional regulator of a major oncogene MYC and an apoptosis inducer MCL-1

Dysregulated pathways involving MYC and MCL-1 drive pathogenesis and resistance in hematologic cancers including lymphoid and myeloid cancers

Prior CDK9i therapies have shown significant GI toxicity, likely driven by poor selectivity across the kinome

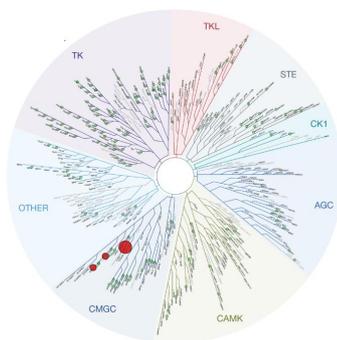
# PRT2527 is a Potent, Highly Selective CDK9 Inhibitor That Depletes MCL-1 and MYC

## Highly Isoform Selective CDK9 Inhibitor

Compound		PRT2527
Biochemical* IC <sub>50</sub> (nM)	<b>CDK9</b>	0.95
Proliferation* IC <sub>50</sub> (nM)		18
Plasma* IC <sub>50</sub> (nM)		196
<b>Fold Selectivity</b> CDK9 vs Other Isoforms	<b>CDK1</b>	73x
	<b>CDK2</b>	340x
	<b>CDK3</b>	35x
	<b>CDK4</b>	250x
	<b>CDK5</b>	>1000x
	<b>CDK6</b>	>1000x
	<b>CDK7</b>	>1000x

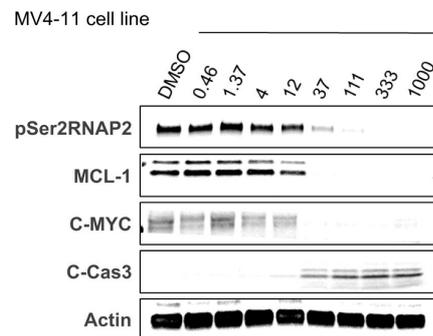
10 -100x
  >100x

## Highly Selective in Kinome



**PRT2527**  
 177 Assays tested  
 3 Interactions Mapped  
 S-Score(35) = 0.02

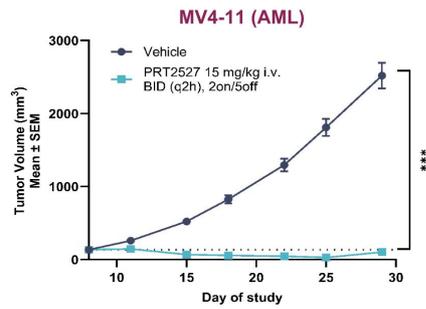
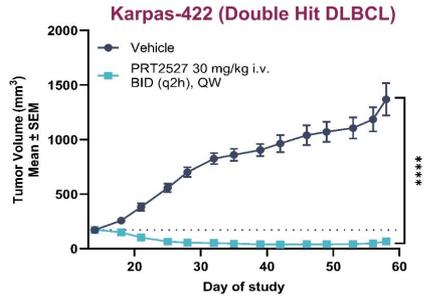
## PRT2527 Treatment Depletes MCL-1 and MYC Proteins



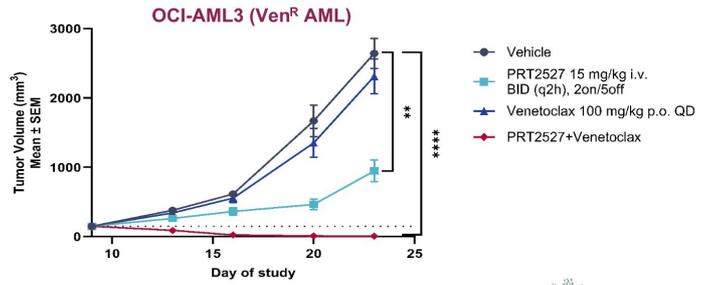
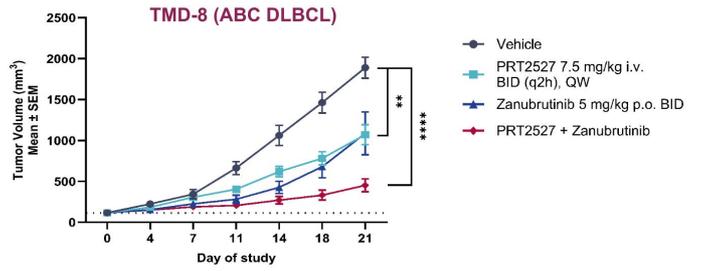
\*Internal data: biochemical assay at 1 mM ATP. H929 CTG proliferation assay  
 ASH 2022 Presentation (<https://www.preludetx.com/science/publications>)

# PRT2527 is Highly Efficacious In Vivo in Models of Hematologic Malignancies

## Monotherapy



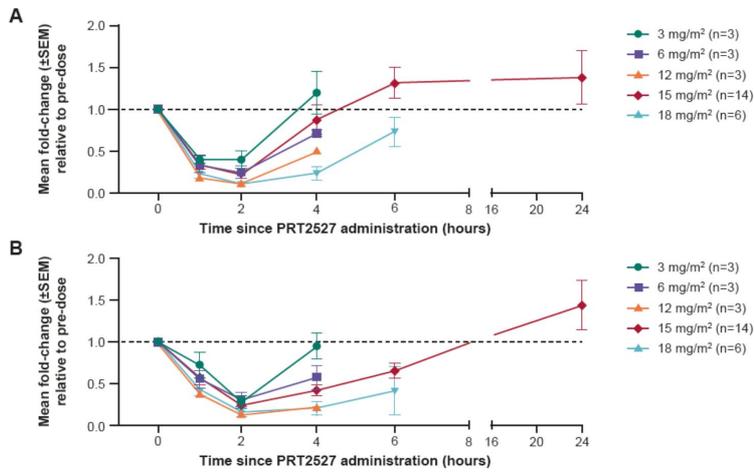
## Combination



ASH 2022 Presentation (<https://www.preludetx.com/science/publications>); Data on file

# Initial Phase 1 Study of PRT2527 in Solid Tumors Evaluated Both Safety and PK/PD Properties

## PRT2527-Associated Inhibition of CDK9 Transcriptional Targets MYC (A), MCL1 (B) in PBMCs



Note: The dotted line represents pre-dose baseline levels.

Source: Patel, MR et al., AACR-NCI-EORTC 2023, Poster C164 (<http://www.preclinet.com/science/publications>)

ClinicalTrials.gov Identifier: NCT05159518

Favorable tolerability with manageable neutropenia and absence of significant gastrointestinal events or hepatotoxicity

Dose-dependent downregulation of CDK9 transcriptional targets – MYC and MCL-1 mRNA expression in PBMCs isolated from treated patients

12 mg/m<sup>2</sup> QW dosing and higher showed optimal target inhibition

Overall safety profile observed in this study supported further development of PRT2527 in hematologic malignancies (NCT05665530)



**Thank You**

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