

# Aprea Therapeutics Presents Preliminary Findings on Oral WEE1 Inhibitor APR-1051 at EORTC-NCI-AACR International Conference on Molecular Targets and Therapeutics

## October 23, 2024

Phase 1 ACESOT-1051 clinical trial is evaluating APR-1051 as monotherapy treatment in patients with significant unmet medical need; active enrollment is ongoing at three sites in the U.S.

Preliminary results to date demonstrate APR-1051 is safe and well-tolerated with no hematologic toxicity

DOYLESTOWN, Pa., Oct. 23, 2024 (GLOBE NEWSWIRE) -- Aprea Therapeutics, Inc. (Nasdaq: APRE) ("Aprea", or the "Company"), a clinical-stage biopharmaceutical company focused on precision oncology through synthetic lethality, today announced that preliminary safety results on its WEE1 inhibitor APR-1051 are highlighted in a poster being presented today at the <u>EORTC-NCI-AACR Symposium on Molecular Targets and Cancer</u> <u>Therapeutics</u>, taking place in Barcelona, Spain.

The results are from ACESOT-1051, a first-in-human Phase 1 study assessing the safety, pharmacokinetics, pharmacodynamics, and preliminary efficacy of single-agent APR-1051 in advanced solid tumors harboring cancer-associated gene alterations.

The dose escalation part of the study (Part 1) is currently ongoing and is expected to include up to 39 patients with advanced solid tumors. Oral APR-1051 is being administered once daily for 28-day cycles. A total of 8 cohorts are planned, evaluating doses of 10 mg to 150 mg once daily. So far, patients have been enrolled in single patient Cohorts 1, 2 and 3, evaluating subtherapeutic doses of 10 mg, 20 mg and 30 mg, respectively.

### Preliminary results

Data are available on two of three patients, with a cutoff date of October 7, 2024

- · Preliminary results demonstrate that APR-1051 is safe and well-tolerated with no hematologic toxicity
- Hemoglobin, hematocrit, and platelet counts were stable or increased slightly during the first treatment cycle
- There were no signs of neutropenia, with white blood cells and neutrophils trending up for both patients during the first treatment cycle
- All adverse events (AEs) recorded were Grade 1 and 2, with one Grade 1 AE (abdominal distention) possibly related to APR-1051
- No QT prolongation has been observed
- Three patients have been dosed to date with data available on two of these. One had disease progression at 49 days, a second withdrew following 36 days of treatment and dosing is ongoing in the third patient.

"These preliminary data from our ongoing Phase 1 study are encouraging, showing that APR-1051 is safe and well-tolerated," said Philippe Pultar, MD, Senior Medical Advisor and Lead of WEE1 Clinical Development at Aprea. "APR-1051 has been designed to be selective for WEE1, without the off-target inhibition of PLK or QT prolongation reported for other molecules in this class. We expect to confirm this favorable safety profile as we move to higher doses in the ACESOT-1051 trial. We are excited to explore the full therapeutic benefits of APR-1051, which has best in class potential, and hope to generate preliminary efficacy data from the study during 2025."

APR-1051 targets WEE1 kinase, an enzyme involved in the DNA damage response pathway. Based on preclinical studies, Aprea believes that APR-1051 may solve liabilities associated with other WEE1 inhibitors and is differentiated based on: 1) molecular structure; 2) selectivity for WEE1 versus off-target inhibition of the polo-like kinase, or PLK, family of kinases; 3) potentially improved pharmacokinetic (PK) properties; and 4) potential absence of QT prolongation at doses that significantly inhibit WEE1. No head-to-head studies with APR-1051 have been conducted.

Active enrollment in ACESOT-1051 is ongoing at three sites in the U.S. (NEXT Oncology locations in San Antonio and Dallas, and The University of Texas MD Anderson Cancer Center) with planned additional sites.

Anthony Tolcher M.D., Founder of Next Oncology commented, "The preliminary findings from ACESOT-1051 are promising and we are encouraged by the minimal toxicity in the patients treated so far. WEE1 kinase is a validated oncology target and represents an opportunity for therapeutic intervention in patients who otherwise have poor prognosis and no effective treatments today. We look forward to further exploring APR-1051's potential and are excited to recruit additional patients as the study progresses."

#### ACESOT-1051 Study Design

ACESOT-1051 (A Multi-Center Evaluation of WEE1 Inhibitor in Patients with Advanced **So**lid Tumors, APR-1051) is a focused biomarker-driven study designed to assess the safety, pharmacokinetics, pharmacodynamics, and preliminary efficacy of single-agent APR-1051 in advanced solid tumors harboring cancer-associated gene alterations. Oral APR-1051 will be administered once daily for 28-day cycles. The study consists of two parts: Part 1 is dose escalation and is expected to enroll up to 39 patients with advanced solid tumors. The first three dose levels are using accelerated titration followed by Bayesian Optimal Interval (BOIN) design for the remaining dose levels; Part 2 (up to 40 patients) is designed for dose optimization, with the goal of selecting the Recommended Phase 2 Dose (RP2D). For more information, refer to Clinicaltrials.gov: NCT06260514.

A copy of the poster will be available on Aprea's corporate website today. Three additional posters will be available at the conclusion of the EORTC-

#### NCI-AACR Symposium on Friday, October 25, 2024.

#### About Aprea

Aprea Therapeutics, Inc. is a clinical-stage biopharmaceutical company headquartered in Doylestown, Pennsylvania, focused on precision oncology through synthetic lethality. The Company's lead program is ATRN-119, a clinical-stage small molecule ATR inhibitor in development for solid tumor indications. APR-1051, an oral, small molecule WEE1 inhibitor, recently entered the clinic. For more information, please visit the company website at <a href="http://www.aprea.com">www.aprea.com</a>.

The Company may use, and intends to use, its investor relations website at <u>https://ir.aprea.com/</u> as a means of disclosing material nonpublic information and for complying with its disclosure obligations under Regulation FD.

#### **Forward-Looking Statement**

Certain information contained in this press release includes "forward-looking statements", within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended related to our study analyses, clinical trials, regulatory submissions, and projected cash position. We may, in some cases use terms such as "future," "predicts," "believes," "potential," "continue," "anticipates," (estimates," (expects," "plans," (intends," (targeting," (confidence," (may," (could," (might," (likely," (will," (should")))) convey uncertainty of the future events or outcomes to identify these forward-looking statements. Our forward-looking statements are based on current beliefs and expectations of our management team and on information currently available to management that involve risks, potential changes in circumstances, assumptions, and uncertainties. All statements contained in this press release other than statements of historical fact are forwardlooking statements, including statements regarding our ability to develop, commercialize, and achieve market acceptance of our current and planned products and services, our research and development efforts, including timing considerations and other matters regarding our business strategies, use of capital, results of operations and financial position, and plans and objectives for future operations. Any or all of the forward-looking statements may turn out to be wrong or be affected by inaccurate assumptions we might make or by known or unknown risks and uncertainties. These forward-looking statements are subject to risks and uncertainties including, without limitation, risks related to the success, timing, and cost of our ongoing clinical trials and anticipated clinical trials for our current product candidates, including statements regarding the timing of initiation, pace of enrollment and completion of the trials (including our ability to fully fund our disclosed clinical trials, which assumes no material changes to our currently projected expenses), futility analyses, presentations at conferences and data reported in an abstract, and receipt of interim or preliminary results (including, without limitation, any preclinical results or data), which are not necessarily indicative of the final results of our ongoing clinical trials, our understanding of product candidates mechanisms of action and interpretation of preclinical and early clinical results from its clinical development programs, and the other risks, uncertainties, and other factors described under "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations" and elsewhere in the documents we file with the U.S. Securities and Exchange Commission. For all these reasons, actual results and developments could be materially different from those expressed in or implied by our forward-looking statements. You are cautioned not to place undue reliance on these forward-looking statements, which are made only as of the date of this press release. We undertake no obligation to update such forward-looking statements for any reason, except as required by law.

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