# VERITAC-2: a global, randomized phase 3 study of ARV-471, a PROteolysis TArgeting Chimera (PROTAC) estrogen receptor (ER) degrader, vs fulvestrant in ER+/human epidermal growth factor receptor 2 (HER2)- advanced breast cancer

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### **Objective**

 The phase 3 VERITAC-2 study (NCT05654623) will compare the efficacy and safety of vepdegestrant (ARV-471) with the selective ER degrader (SERD) fulvestrant in patients with ER+/HER2advanced breast cancer after prior combination cyclin-dependent kinase (CDK)4/6 inhibitor therapy and endocrine therapy

# **Background and Rationale**

- Vepdegestrant (ARV-471) is an oral PROTAC ER degrader that binds to and degrades wild-type ER and clinically relevant mutants<sup>1</sup>
- Vepdegestrant directly binds the cereblon E3 ubiquitin ligase and ER to trigger ubiquitination of ER and its subsequent proteasomal degradation. whereas SERDs indirectly recruit the ubiquitin-proteasome system, secondary to conformational changes and/or immobilization of ER2
- The SERD fulvestrant must be administered intramuscularly,<sup>3</sup> and at its optimal dose, ER protein degradation is limited to only 40%–50%<sup>4,5</sup>
- In breast cancer xenograft models, vepdegestrant treatment provided substantially greater ER degradation and tumor growth inhibition compared with fulvestrant<sup>1</sup>
- In VERITAC, the phase 2 expansion cohort of a first-in-human phase 1/2 study (NCT04072952), vepdegestrant monotherapy showed clinical activity and was well tolerated in heavily pretreated patients with ER+/HER2advanced breast cancer<sup>6</sup>
  - Clinical benefit rate (CBR)<sup>a</sup> was 37.1% (95% CI: 21.5–55.1) and 38.9% (95% CI: 23.1–56.5) in the 200-mg (n=35) and 500-mg (n=36) oral, once-daily (QD) cohorts, respectively
  - Clinical activity was also observed in the mutant ESR1 subgroup: CBR was 47.4% (95% CI: 24.4–71.1) and 54.5% (95% CI: 32.2–75.6) in the 200-mg (n=19) and 500-mg (n=22) QD cohorts, respectively
  - Most adverse events (AEs) were grade 1/2, with few AEs leading to dose reduction (500 mg, n=3) or discontinuation (200 mg, n=1; 500 mg, n=2)
  - In a subset of patients who received 200 mg QD across the phase 1/2 study (n=9), up to 95% ER degradation was observed, with a median (range) of 69% (28%–95%)
- The phase 3 monotherapy dose (200 mg QD) for the current study was chosen based on comparable efficacy and favorable tolerability relative to 500 mg QD, and robust ER degradation

<sup>a</sup>Rate of confirmed complete response, partial response, or stable disease ≥24 weeks; evaluable patients were enrolled ≥24 weeks prior to the

## **Study Design**

- In this open-label, global, multicenter, phase 3 study (**Figure 1**), patients are randomized 1:1 to receive vepdegestrant or fulvestrant in 28-day cycles
- Eligible patients have ER+/HER2- advanced breast cancer and prior treatment with a CDK4/6 inhibitor therapy in combination with endocrine therapy (**Table 1**)
- Outcome measures are shown in **Table 2**

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# **Study Status**

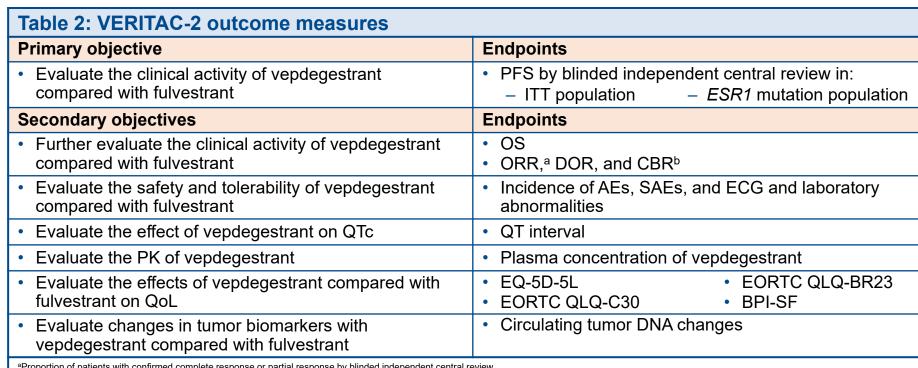
- Enrollment is ongoing
- Countries with currently open and planned study sites are shown in Figure 2

#### Please scan this QR code Contact with your smartphone app Mario Campone, MD; to view a video of the mario.campone@ico. mechanisms of action of unicancer.fr vepdegestrant and **SERDs**

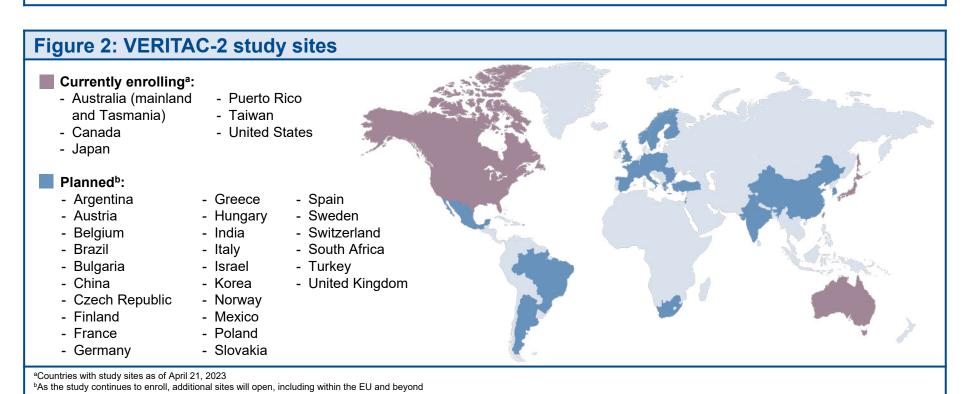
### Figure 1: VERITAC-2 trial schema 28-Day Treatment Cycles Vepdegestrant **Previously treated patients with** 200 mg orally QD continuously ER+/HER2- advanced breast cancer **Fulvestrant** (N≈560) 500 mg intramuscularly days 1 and 15 of cycle 1 and day 1 of subsequent cycles Stratification factors ESR1 mutation (yes vs no) Visceral disease (yes vs no) ER=estrogen receptor; *ESR1*=estrogen receptor 1 gene; HER2=human epidermal growth factor receptor 2; QD=once dail

#### Table 1: VERITAC-2 key eligibility criteria Inclusion criteria **Exclusion criteria** Women or men aged ≥18 years Active brain metastases Confirmed ER+/HER2- locoregional recurrent or Advanced, symptomatic visceral spread at risk of metastatic breast cancer life-threatening complications in the short term Prior therapies for locoregional recurrent or metastatic Prior treatment with: disease must fulfill all the following criteria: Vepdegestrant - 1 line of CDK4/6 inhibitor therapy in combination with Fulvestrant endocrine therapy mTOR, PI3K, or AKT pathway inhibitors Up to 1 additional endocrine therapy PARP inhibitors Most recent endocrine treatment given for ≥6 months Other investigational novel endocrine therapy prior to disease progression Prior CDK4/6 inhibitor treatment in the Radiological progression during or after the last line neoadjuvant/adjuvant setting of therapy Chemotherapy for advanced/metastatic disease ECOG performance status of 0 or 1 Measurable disease evaluable per RECIST v1.1 or nonmeasurable bone-only disease

AKT=protein kinase B; CDK=cyclin-dependent kinase; ECOG=Eastern Cooperative Oncology Group; ER=estrogen receptor; HER2=human epidermal growth factor receptor 2; mTOR=m. PARP=poly ADP ribose polymerase; Pl3K=phosphoinositide-3 kinase; RECIST v1.1=Response Evaluation Criteria in Solid Tumors version 1.1



aProportion of patients with confirmed complete response or partial response by blinded independent central review
bProportion of patients with confirmed complete response, partial response, or stable disease ≥24 weeks
AE=adverse event; BPI-SF=Brief Pain Inventory-Short Form; CBR=clinical benefit rate; DOR=duration of response; ECG=electrocardiogram; EORTC QLQ-BR23=European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire Breast Cancer Module; EORTC QLQ-C30=EORTC Quality of Life Questionnaire Core; EQ-5D-5L=EuroQol 5 Dimensions-5 Levels; ESR1=estrogen receptor 1 gene; ITT=intent-to-



### References

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