

# Dual Endothelin Antagonist: Evaluating Aprocitan for Hypertension

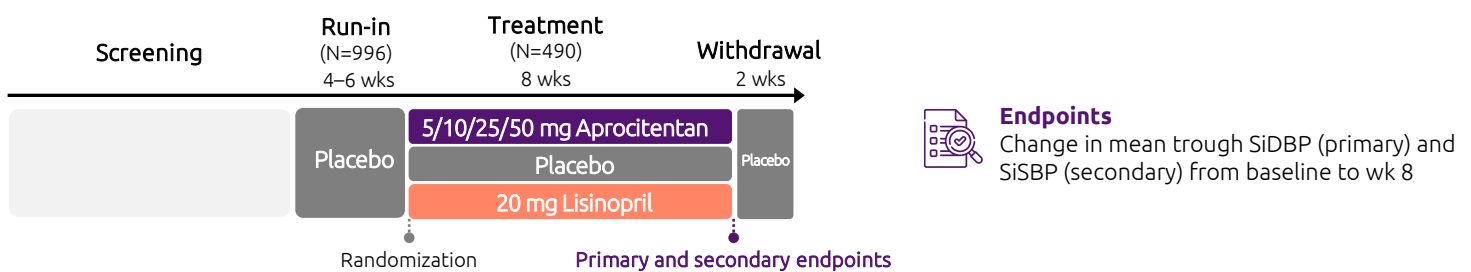
## A Review of Phase 2 and Phase 3 Clinical Trial Data

### 1. Hypertension

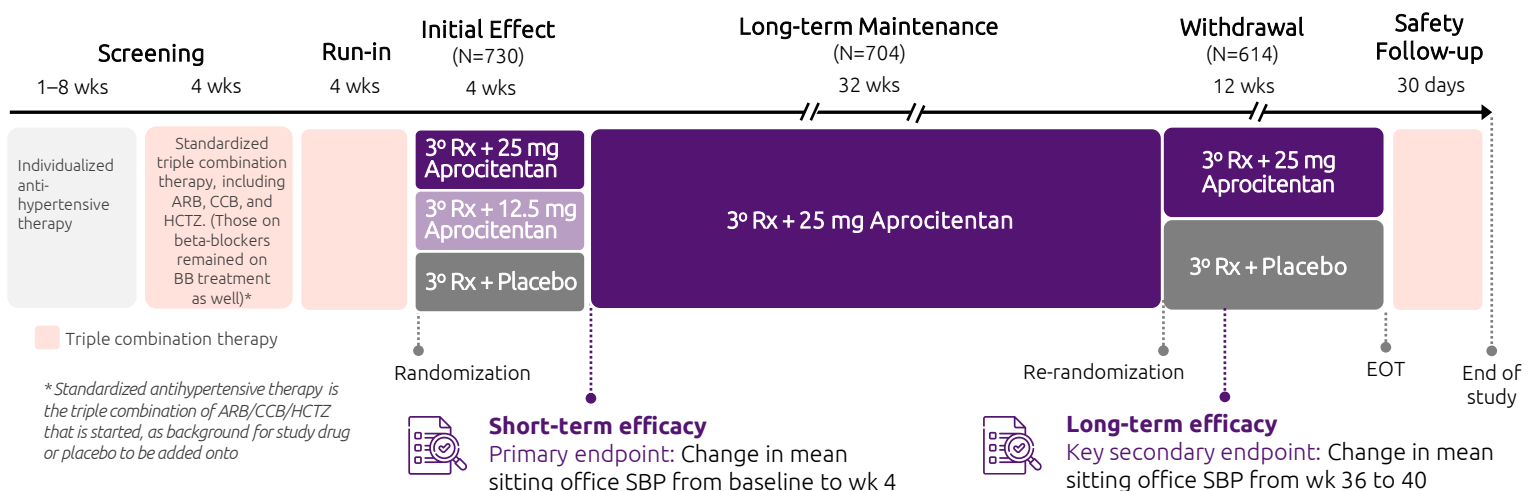
- The endothelin pathway is implicated in hypertension and represents a unique pathway that has not been targeted with previous antihypertensive agents<sup>1,2</sup>
- **Aprocitan** is the first and only dual endothelin receptor antagonist to be investigated in patients with uncontrolled hypertension in a **Phase 2 dose-finding study** as monotherapy and in a **Phase 3 study evaluating its efficacy and durability** in patients not adequately controlled in combination with other medications<sup>1,2</sup>

### 2. Study Design and Methods

- **Monotherapy: Aprocitan only:** Phase 2 dose-response study in treatment of essential hypertension<sup>1</sup>



- **Combination Therapy: Aprocitan + Triple Combination:** Phase 3 PRECISION trial is a multicenter, blinded, randomized, parallel-group study of aprocitan in patients with uncontrolled hypertension despite being on  $\geq 3$  antihypertensives within 1 year of screening<sup>2</sup>

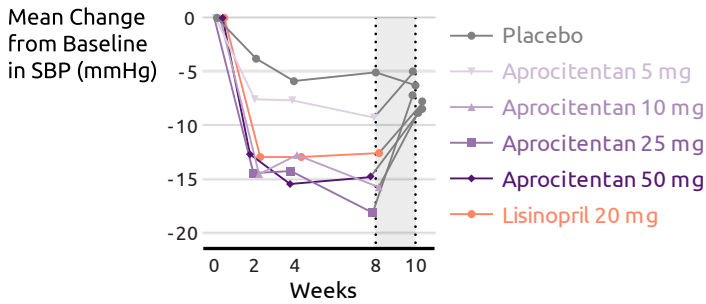


3° Rx, triple therapy; ARB, angiotensin receptor blocker (i.e. valsartan); CCB, calcium channel blocker (i.e. amlodipine); EOT, end of treatment; HCTZ, hydrochlorothiazide; SiDBP, sitting diastolic blood pressure; SiSBP, sitting systolic blood pressure; wk, week.

References: 1. Verweij P, et al. *Hypertension*. 2020;75(4):956-965. 2. Schlaich MP, et al. *Lancet*. 2022;400(10367):1927-1937.

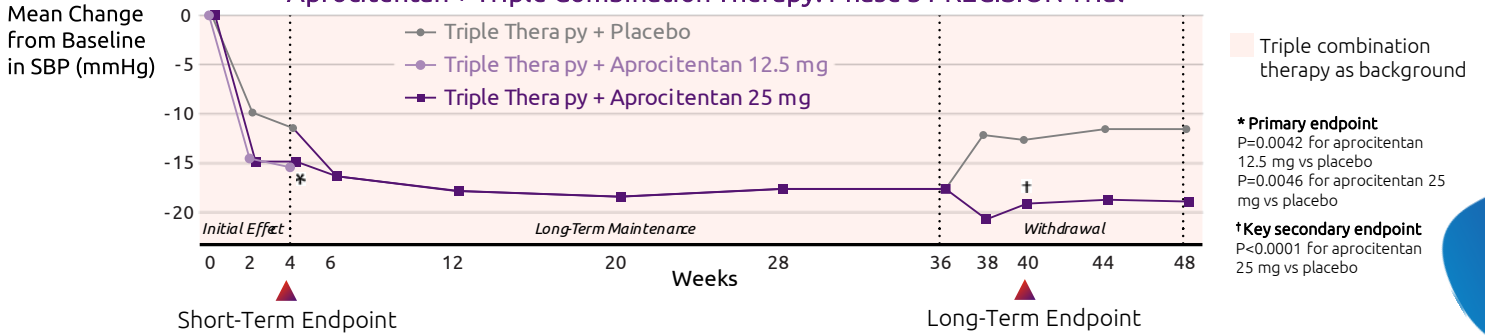
### 3. Results

#### Aprocitentan as Monotherapy: Phase 2 Study<sup>1</sup>



- In patients with essential hypertension, **aprocitentan as monotherapy** led to **dose-dependent reductions** in mean office sitting SBP compared to that of placebo after 8 weeks of treatment
- Similar reductions were observed in **sitting DBP**, which was the primary endpoint
- Incidence of adverse events were similar** in the **aprocitentan** groups and the **placebo** group. Aprocitentan produced dose-dependent decreases in hematocrit, albumin, and uric acid, increase in est. plasma volume, and no change in weight.

#### Aprocitentan + Triple Combination Therapy: Phase 3 PRECISION Trial<sup>2,3</sup>



Triple combination therapy as background

\* Primary endpoint  
P=0.0042 for aprocitentan 12.5 mg vs placebo  
P=0.0046 for aprocitentan 25 mg vs placebo

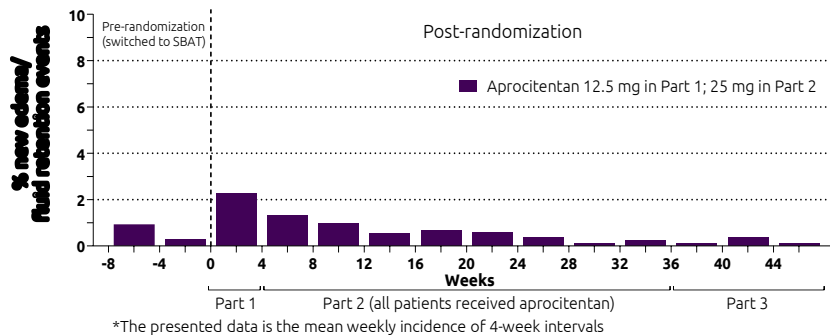
† Key secondary endpoint  
P<0.0001 for aprocitentan 25 mg vs placebo

	Baseline <sup>3</sup> Randomization Week 0 Mean SBP	Short-Term Treatment <sup>3</sup> Week 4 Mean SBP (LS Mean Δ mmHg vs BL)	Long-Term Treatment <sup>3</sup> Rerandomization [RR] Week 36 Mean SBP	Withdrawal <sup>3</sup> Week 40 Mean SBP (LS Mean Δ mmHg vs RR)
Placebo	153.3	141.8 (-11.5)	136.4	140.5 (+4.4)
Aprocitentan 12.5 mg	153.2	138.0 (-15.3)		
Aprocitentan 25 mg	153.3	138.0 (-15.2)	135.3	134.0 (-1.5)

#### 3.1. Safety and Tolerability

- Aprocitentan was **well-tolerated** with the most frequent adverse events being anemia and mild to moderate edema or fluid retention; most of these events were **clinically manageable** with diuretic therapy during the study.

#### % of New Edema/Fluid Retention Events per Week across Phase 3 PRECISION Study<sup>3</sup>



### 4. Key Takeaways



In patients with untreated hypertension, **aprocitentan monotherapy** led to **clinically meaningful<sup>4</sup> reductions** in blood pressure without serious adverse events.



In combination with standard triple therapy, aprocitentan led to **clinically meaningful<sup>4</sup> reductions** in SBP in the first 4 weeks and sustained over 48 weeks.



Mild to moderate edema or fluid retention was **manageable with diuretic therapy.**

References: 1. Verweij P, et al. *Hypertension*. 2020;75(4):956-965. 2. Schlaich MP, et al. *Lancet*. 2022;400(10367):1927-1937. 3. Data on File. PRECISION CSR. Idorsia Pharmaceuticals. 2024. 4. Canoy D, et al. *Curr Cardiol Rep*. 2022;24(7):851-860.