

Ralinepag

Catalog No: tcsc0012350



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1187856-49-0

Formula:

$C_{23}H_{26}ClNO_5$

Pathway:

GPCR/G Protein

Target:

Prostaglandin Receptor

Purity / Grade:

>98%

Solubility:

DMSO : 125 mg/mL (289.41 mM; Need ultrasonic and warming)

Alternative Names:

APD811

Observed Molecular Weight:

431.91

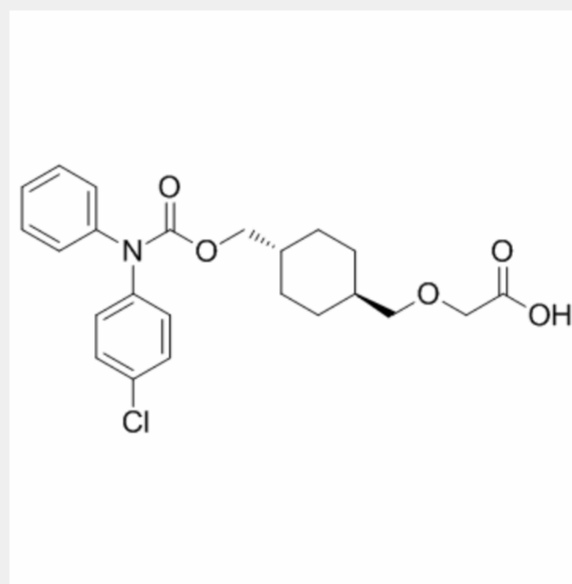
Product Description

Ralinepag is a potent, orally bioavailable and non-prostanoid **prostacyclin (IP) receptor** agonist, with **EC₅₀s** of 8.5 nM, 530 nM and 850 nM for human and rat IP receptor and human DP1 receptor, respectively.

IC₅₀ & Target: EC₅₀: 8.5 nM (Human IP receptor), 530 nM (Rat IP receptor), 850 nM (Human DP1 receptor)^[1]

In Vitro: Ralinepag is a potent non-prostanoid prostacyclin receptor agonist, with EC₅₀s of 8.5 nM, 530 nM and 850 nM for human and rat IP receptor and human DP1 receptor, respectively. Ralinepag (5c) has potent receptor binding affinity at prostaglandin receptor, with K_is of 1.2 nM, 3 nM, 76 nM, and 256 nM for monkey, human, rat, and dog IP receptor (ligand, [³H]-iloprost), and 2.6 μM, 9.6 μM, 610 nM, 143 nM, and 678 nM for human DP1, EP1, EP2, EP3v6 and EP4 receptors (ligand, [³H]-PGE₂), respectively. Moreover, Ralinepag shows no effect on cytochrome P450 enzymes (IC₅₀ > 50 μM for CYPs 1A2, 2D6, 3A4 2C8, 2C9, and 2C19) or hERG channel functional activity in a patch clamp assay (IC₅₀ > 30 μM). Ralinepag also inhibits the ADP-induced human platelet aggregation, with an IC₅₀ of 38 nM^[1].

In Vivo: Ralinepag (30 mg/kg, p.o.) markedly reduces the monocrotaline (MCT)-induced increase in pulmonary arterial pressure and pulmonary vessel wall thickness in rats^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!