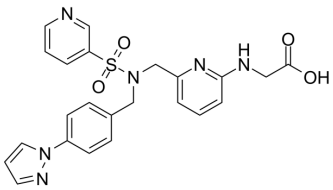
Omidenepag

Cat. No.:	HY-17642
CAS No.:	1187451-41-7
Molecular Formula:	$C_{23}H_{22}N_6O_4S$
Molecular Weight:	478.52
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (522.44 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0898 mL	10.4489 mL	20.8978 mL
	5 mM	0.4180 mL	2.0898 mL	4.1796 mL
	10 mM	0.2090 mL	1.0449 mL	2.0898 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (4.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.35 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Omidenepag (UR-7276), a pharmacologically active form of Omidenepag Isopropyl, is a selective, non-prostanoid EP2 receptor agonist, with an EC_{50} of 1.1 nM. Omidenepag shows binding affinities (IC_{50}) 10 nM for h-EP2[1].

IC_{50} & Target			
	hEP4	hEP2	hEP2
	5480 nM (IC_{50})	10 nM (IC_{50})	1.1 nM (EC50)

REFERENCES

[1]. Iwamura R, et al. Identification of a Selective, Non-Prostanoid EP2 Receptor Agonist for the Treatment of Glaucoma: Omidenepag and its Prodrug Omidenepag Isopropyl. J Med Chem. 2018 Aug 9;61(15):6869-6891.

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