

Taprenepag isopropyl

Chemical Properties

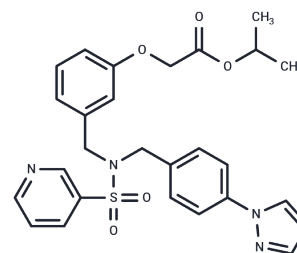
CAS No. : 1005549-94-9

Formula: C₂₇H₂₈N₄O₅S

Molecular Weight: 520.6

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Taprenepag isopropyl is a highly selective agonist of the EP2 receptor.
Targets(IC50)	Prostaglandin Receptor
In vivo	Intraocular pressure (IOP) typically stays within normal limits in the left eye treated with a vehicle solution, while the right eye, dosed with Taprenepag isopropyl, shows a reduction in IOP across all dosage groups. Notably, in the high-dose group, IOP decreases to levels below measurable thresholds (<4mm Hg) on Days 22 and 29. Administration of Taprenepag isopropyl, regardless of the dose, does not result in clinical signs, body weight changes, or ocular findings in the animals receiving the lowest dose (0.75 mg/day) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9209 mL	9.6043 mL	19.2086 mL
5 mM	0.3842 mL	1.9209 mL	3.8417 mL
10 mM	0.1921 mL	0.9604 mL	1.9209 mL
50 mM	0.0384 mL	0.1921 mL	0.3842 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Yanochko GM, et al. Investigation of ocular events associated with taprenepag isopropyl, a topical EP2 agonist in development for treatment of glaucoma. J Ocul Pharmacol Ther. 2014 Jun;30(5):429-39.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481