

## Taprenepag isopropyl

## Chemical Properties

CAS No. : 1005549-94-9

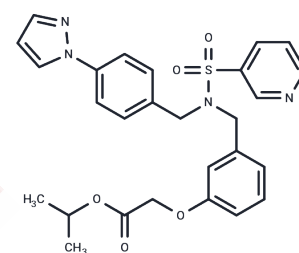
Formula: C<sub>27</sub>H<sub>28</sub>N<sub>4</sub>O<sub>5</sub>S

Molecular Weight: 520.6

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Taprenepag isopropyl (PF-04217329) is a selective EP2 agonist and prodrug of CP-544326. Following ocular administration, it induces elevated cAMP levels and reduced intraocular pressure, rendering it suitable for treating glaucoma.
Targets(IC50)	Prostaglandin Receptor
In vivo	Taprenepag isopropyl (0.75, 12, or 36 µg/day, instilled into the right eye twice daily for 28 days) demonstrated intraocular pressure-lowering effects in cynomolgus monkeys but also induced adverse reactions such as iritis, photophobia, and increased corneal thickness. These adverse reactions were reversible after discontinuation of the drug [1].

## Solubility Information

Solubility	DMSO: 160 mg/mL (307.34 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (9.6 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### 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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