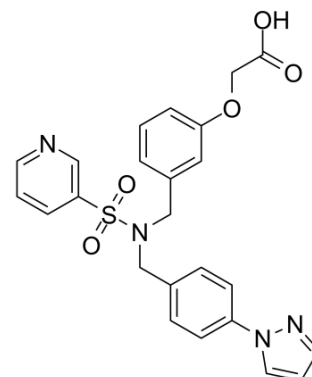


Taprenepag

Cat. No.:	HY-14899		
CAS No.:	752187-80-7		
Molecular Formula:	C ₂₄ H ₂₂ N ₄ O ₅ S		
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 : ≥ 100 mg/mL (208.98 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		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

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (5.22 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (5.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Taprenepag (CP-544326) is a potent and selective prostaglandin EP₂ agonist with IC₅₀s of 10 and 15 nM for human and rat EP₂, respectively. Taprenepag shows selectivity for EP₂ over other EP receptors (IC₅₀s > 3200 nM for EP₁, EP₃, and EP₄) and a panel of 37 G protein-coupled receptors^[1].

In Vitro

Taprenepag (CP-544326) (0.01-1000 nM) increases cAMP levels in HEK293 cells expressing human EP₂ (EC₅₀=2.8 nM). Taprenepag has poor corneal permeability in an ex vivo rabbit corneal model^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Sci Adv. 2021 Apr 2;7(14):eabf1268.

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REFERENCES

[1]. Prasanna G, et al. Effect of PF-04217329 a prodrug of a selective prostaglandin EP(2) agonist on intraocular pressure inpreclinical models of glaucoma. Exp Eye Res. 2011 Sep;93(3):256-64.

Caution: Product has not been fully validated for medical applications. For research use only.

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