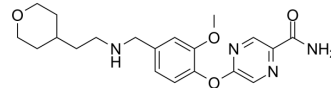


Bevenopran

Cat. No.:	HY-100122		
CAS No.:	676500-67-7		
Molecular Formula:	C ₂₀ H ₂₆ N ₄ O ₄		
Molecular Weight:	386.44		
Target:	Opioid Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
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 : 125 mg/mL (323.47 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5877 mL	12.9386 mL	25.8772 mL
5 mM	0.5175 mL	2.5877 mL	5.1754 mL
10 mM	0.2588 mL	1.2939 mL	2.5877 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: ≥ 2.08 mg/mL (5.38 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (5.38 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bevenopran is a peripheral μ-opioid receptor antagonist^{[1][2]}.

IC₅₀ & Target

μ-opioid receptor^[1]

In Vivo

Bevenopran is a peripheral μ-opioid receptor antagonist. Bevenopran is currently under investigation for the treatment of opioid-induced bowel dysfunction (OBD)^[1]. Bevenopran tends to increase bowel movement (BM) frequency, especially for 0.1 mg twice daily and 4 mg daily, respectively^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Diego L, et al. Novel opioid antagonists for opioid-induced bowel dysfunction. *Expert Opin Investig Drugs*. 2011 Aug;20(8):1047-56.
- [2]. Siemens W, et al. Advances in pharmacotherapy for opioid-induced constipation - a systematic review. *Expert Opin Pharmacother*. 2015 Mar;16(4):515-32.
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Caution: Product has not been fully validated for medical applications. For research use only.

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