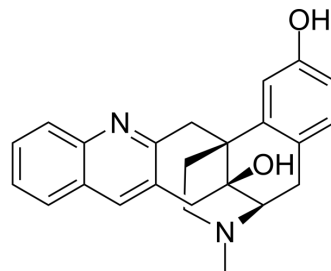


KNT-127

Cat. No.:	HY-120511		
CAS No.:	1256921-89-7		
Molecular Formula:	C ₂₄ H ₂₄ N ₂ O ₂		
Molecular Weight:	372.46		
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 : 25 mg/mL (67.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6849 mL	13.4243 mL	26.8485 mL
		5 mM	0.5370 mL	2.6849 mL	5.3697 mL
10 mM		0.2685 mL	1.3424 mL	2.6849 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (3.36 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	KNT-127 is a potent and selective δ-opioid receptor agonist effective by systemic administration. KNT-127 shows selectivity for the δ-receptor (K _i of 21.3, 0.16, 153 nM for opioid μ-, δ-, and κ-receptors, respectively). KNT-127 increases the release of dopamine and L-glutamate in the striatum, nucleus accumbens and median pre-frontal cortex. Antidepressant-like effects ^[1] [2].
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REFERENCES

- [1]. Nagase H, et al. Design and synthesis of KNT-127, a δ-opioid receptor agonist effective by systemic administration. *Bioorg Med Chem Lett.* 2010;20(21):6302-6305.
- [2]. Tanahashi S, et al. Novel δ1-receptor agonist KNT-127 increases the release of dopamine and L-glutamate in the striatum, nucleus accumbens and median pre-frontal cortex.

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

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