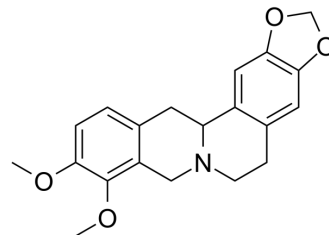


Tetrahydroberberine

Cat. No.:	HY-N0925		
CAS No.:	522-97-4		
Molecular Formula:	C ₂₀ H ₂₁ NO ₄		
Molecular Weight:	339.39		
Target:	Dopamine 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 (73.66 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9465 mL	14.7323 mL	29.4646 mL
5 mM	0.5893 mL	2.9465 mL	5.8929 mL
10 mM	0.2946 mL	1.4732 mL	2.9465 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Tetrahydroberberine is an isoquinoline alkaloid isolated from corydalis tuber; has micromolar affinity for dopamine D(2) (pK(i) = 6.08) and 5-HT(1A) (pK(i) = 5.38) receptors but moderate to no affinity for other relevant serotonin receptors (5-HT(1B), 5-HT(1D), 5-HT(3), and 5-HT(4); pK(i) < 5.00).

REFERENCES

[1]. Lee TH, et al. Tetrahydroberberine, an isoquinoline alkaloid isolated from corydalis tuber, enhances gastrointestinal motor function. J Pharmacol Exp Ther. 2011 Sep;338(3):917-24.

[2]. Niwa M, et al. Dopaminergic unique affinity of tetrahydroberberine and l-tetrahydroberberine-d-camphor sulfonate. Pharmacology. 1991;43(6):329-36.

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

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