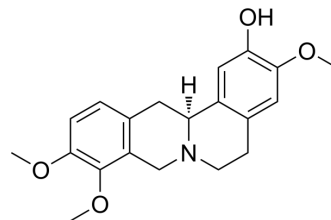


(-)-Isocorypalmine

Cat. No.:	HY-N0927
CAS No.:	483-34-1
Molecular Formula:	C ₂₀ H ₂₃ NO ₄
Molecular Weight:	341.4
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 6.67 mg/mL (19.54 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		2.9291 mL	14.6456 mL	29.2912 mL
	5 mM		0.5858 mL	2.9291 mL	5.8582 mL
	10 mM		0.2929 mL	1.4646 mL	2.9291 mL

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

BIOLOGICAL ACTIVITY

Description

(-)-Isocorypalmine (Tetrahydrocolumbamine), isolated from the crude base fraction of *Corydalis chaerophylla*, is a dopamine receptor ligand^[1]. Recombinant CYP719A21 displays strict substrate specificity and high affinity ($K_m=4.63 \pm 0.71 \mu\text{M}$) for (-)-Isocorypalmine^[2].

REFERENCES

[1]. Shen XL, et al. Isolation and identification of tetrahydrocolumbamine as a dopamine receptor ligand from *Polygala tenuifolia* Willd. *Yao Xue Xue Bao*. 1994;29(12):887-890.

[2]. Dang TT, et al. Cloning and characterization of canadine synthase involved in noscapine biosynthesis in opium poppy. *FEBS Lett*. 2014;588(1):198-204.

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

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