Tetrahydro-β-carboline

Cat. No.: HY-20696

CAS No.: 16502-01-5

Molecular Formula: $C_{11}H_{12}N_2$

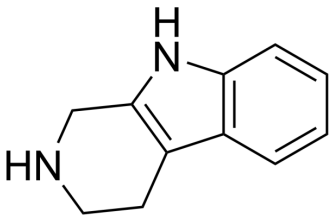
Molecular Weight: 172.23

Target: 5-HT 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 : 100 mg/mL (580.62 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.8062 mL	29.0309 mL	58.0619 mL
	5 mM	1.1612 mL	5.8062 mL	11.6124 mL
	10 mM	0.5806 mL	2.9031 mL	5.8062 mL

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

BIOLOGICAL ACTIVITY

Description

Tetrahydro-β-carboline (Tryptoline) is a metabolite of tryptamine, also is a competitive serotonin reuptake inhibitor with an K_i value of 6.1 μM[1].

IC_{50} & Target

serotonin
6.1 μM (Ki)

In Vivo

Tetrahydro-β-carboline (20 μg; i.c.v.) increases the serotonin levels in the same part of the brain in rats[1].

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

Animal Model:	180-200g female Sprague-Dawley rats[1]
Dosage:	20 μg
Administration:	Intraventricular injection
Result:	Increased of serotonin levels in the same part of the brain whereas the monoamine

	oxidase activity was not altered.

REFERENCES

[1]. Rommelspacher H, et al. Inhibition of the reuptake of serotonin by tryptoline. Naunyn Schmiedebergs Arch Pharmacol. 1976;292(1):93-5.

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