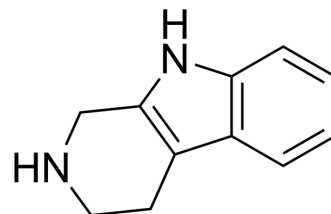


Tetrahydro-β-carboline

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)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		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 (K _i)	
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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA