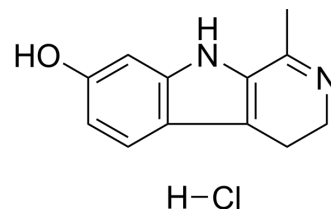


Harmalol hydrochloride

Cat. No.:	HY-N2625A
CAS No.:	6028-07-5
Molecular Formula:	C ₁₂ H ₁₃ ClN ₂ O
Molecular Weight:	236.7
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (422.48 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass 1 mg	5 mg	10 mg
		1 mM	4.2248 mL	21.1238 mL	42.2476 mL
		5 mM	0.8450 mL	4.2248 mL	8.4495 mL
		10 mM	0.4225 mL	2.1124 mL	4.2248 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 5 mg/mL (21.12 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (10.56 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (10.56 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 0.5% CMC-Na/saline water Solubility: 2 mg/mL (8.45 mM); Suspended solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	Harmalol hydrochloride, a beta carboline alkaloid, presents in several medicinal plants such as Peganum harmala. Harmalol hydrochloride, main metabolite of Harmaline, significantly inhibits the dioxin-mediated induction of CYP1A1 at the transcriptional and posttranslational levels. Harmalol hydrochloride possesses antioxidant and hydroxyl radical-scavenging properties ^[1] .
IC₅₀ & Target	CYP1

REFERENCES

[1]. El Gendy MA, et al. Harmaline and harmalol inhibit the carcinogen-activating enzyme CYP1A1 via transcriptional and posttranslational mechanisms. Food Chem Toxicol. 2012;50(2):353-362.

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