LP44 hydrochloride

Cat. No.: CAS No.: Molecular Formula:	HY-103101 824958-12-5 C. H. CIN OS	S∕_S∕
Molecular Weight: Target:	488.13 5-HT Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	HCI
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (204.86 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.0486 mL	10.2432 mL	20.4863 mL	
		5 mM	0.4097 mL	2.0486 mL	4.0973 mL	
		10 mM	0.2049 mL	1.0243 mL	2.0486 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.12 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.12 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.12 mM); Clear solution					

DIOLOGICAL ACTIV	
Description	LP44 (hydrochloride) is a selective 5-HT7 agonist with Ki of 0.22 nM. LP44 (hydrochloride) induces hypothermic dose-dependent manner by intracerebroventricular injection. LP44 (hydrochloride) not causes considerable hypothermic response by intraperitoneal administration ^[1] .
In Vivo	LP44 (hydrochloride) (5.1, 10.3, 20.5, 41.0 nmol; i.c.v.) produces dose-dependent hypothermic effect in CBA mid MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES



[1]. Naumenko VS, et al. On the role of brain 5-HT7 receptor in the mechanism of hypothermia: comparison with hypothermia mediated via 5-HT1A and 5-HT3 receptor. Neuropharmacology. 2011 Dec;61(8):1360-5.

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