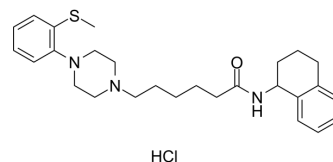


LP44 hydrochloride

Cat. No.:	HY-103101
CAS No.:	824958-12-5
Molecular Formula:	C ₂₇ H ₃₈ ClN ₃ OS
Molecular Weight:	488.13
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
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)																							
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Preparing Stock Solutions</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td>2.0486 mL</td> <td>10.2432 mL</td> <td>20.4863 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4097 mL</td> <td>2.0486 mL</td> <td>4.0973 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2049 mL</td> <td>1.0243 mL</td> <td>2.0486 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	Preparing Stock Solutions				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
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	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: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.12 mM); Clear solution 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 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.12 mM); Clear solution 																							

BIOLOGICAL ACTIVITY

Description	LP44 (hydrochloride) is a selective 5-HT7 agonist with Ki of 0.22 nM. LP44 (hydrochloride) induces hypothermic effect in a 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 mice ^[1] . 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.

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