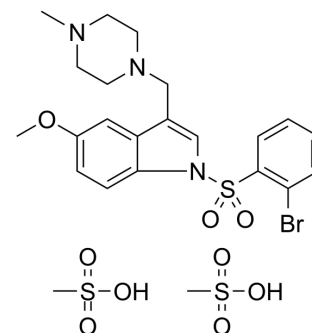


## Masupirdine mesylate

<b>Cat. No.:</b>	HY-109118A
<b>CAS No.:</b>	1791396-46-7
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>32</sub> BrN <sub>3</sub> O <sub>9</sub> S <sub>3</sub>
<b>Molecular Weight:</b>	670.61
<b>Target:</b>	5-HT Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	4°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 : 25 mg/mL (37.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.4912 mL	7.4559 mL	14.9118 mL
	5 mM	0.2982 mL	1.4912 mL	2.9824 mL
	10 mM	0.1491 mL	0.7456 mL	1.4912 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Masupirdine mesylate (SUVN-502 mesylate) is a potent, selective, orally bioavailable, and brain penetrant 5-HT<sub>6</sub> receptor antagonist (K<sub>i</sub> of 2.04 nM for human 5-HT<sub>6</sub> receptor). Masupirdine mesylate (SUVN-502 mesylate) shows high selectivity over 5-HT<sub>2A</sub> receptor and other 100 target sites, and has potential for treatment of Alzheimer's disease<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

5-HT<sub>6</sub> Receptor  
2.04 nM (K<sub>i</sub>)

### REFERENCES

[1]. Nirogi R, et al. Discovery and Development of 1-[(2-Bromophenyl)sulfonyl]-5-methoxy-3-[(4-methyl-1-piperazinyl)methyl]-1H-indole Dimesylate Monohydrate (SUVN-502): A Novel, Potent, Selective and Orally Active Serotonin 6 (5-HT<sub>6</sub>) Receptor Antagonist for Po

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

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