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**Product Data Sheet**

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Product Name: Masupirdine free base

Cat. No.: GC36548

**Chemical Properties**

Cas. No. 701205-60-9

SMILES O=S(N1C2=CC=C(OC)C=C2C(CN3CCN(C)CC3)=C1)(C(C=CC=C4)=C4Br)=OFormula C21H24BrN3O3S M.Wt 478.4

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Masupirdine free base (SUVN-502 free base) 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 free base (SUVN-502 free base) shows high selectivity over 5-HT<sub>2A</sub> receptor and other 100 target sites, and has potential for treatment of Alzheimer's disease[1]. K<sub>i</sub>: 2.04 nM (human 5-HT<sub>6</sub> receptor)[1]

[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 Potential Treatment of Alzheimer's Disease. J Med Chem. 2017 Mar 9;60(5):1843-1859.

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

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