

Product Data Sheet

Product Name: SB742457

Cat. No.: GC12091

Chemical Properties

Cas. No. 607742-69-8

Chemical Name 3-(benzenesulfonyl)-8-piperazin-1-ylquinoline

SMILES C1CN(CCN1)C2=CC=CC3=CC(=CN=C32)S(=O)(=O)C4=CC=CC=C4

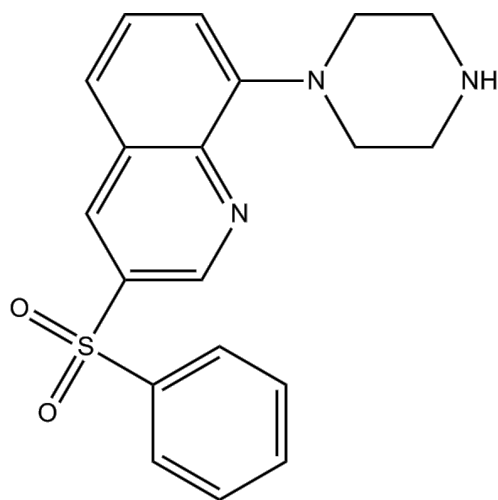
Formula C19H19N3O2S M.Wt 353.44

Solubility $\geq 17.65\text{mg/mL}$ 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

SB742457 is a selective antagonist of 5-HT₆ receptor with a pK_i value of 9.63 [1].

SB742457 has been found to be a highly selective 5-HT₆ receptor antagonist with high affinity to human 5-HT₆ receptor. The pK_i value of SB742457 is 9.63. In addition, because of the orally bioavailable, SB742457 has been reported to promote brain penetration in rat over previously

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

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developed compounds. Besides, subchronic daily oral pre-dosing of SB742457 (1.5mg/kg) has been noted to significantly induce by the cholinergic antagonist scopolamine (0.5mg/kg) in a novel object recognition paradigm. Apart from these, acute oral treatment of SB742457 has been found to induce significant increases levels of glutamate and acetylcholine in extracellular in the medial prefrontal cortex of freely moving rats [1].

Reference:

[1] Aaron T. T. Chuang, Andrew Foley, Perdita L. Pugh, David Sunter, Xin Tong, Ciaran Regan, Lee A. Dawson, Andrew D. Medhurst, Neil Upton. 5-HT₆ receptor antagonist SB-742457 as a novel cognitive enhancing agent for Alzheimer's disease. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association* Volume 2, Issue 3, Supplement, Pages S631–S632, July 2006

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