

Intepirdine

Catalog No: tcsc1087



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

607742-69-8

Formula:

$C_{19}H_{19}N_3O_2S$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

SB-742457;GSK-742457;RVT-101

Observed Molecular Weight:

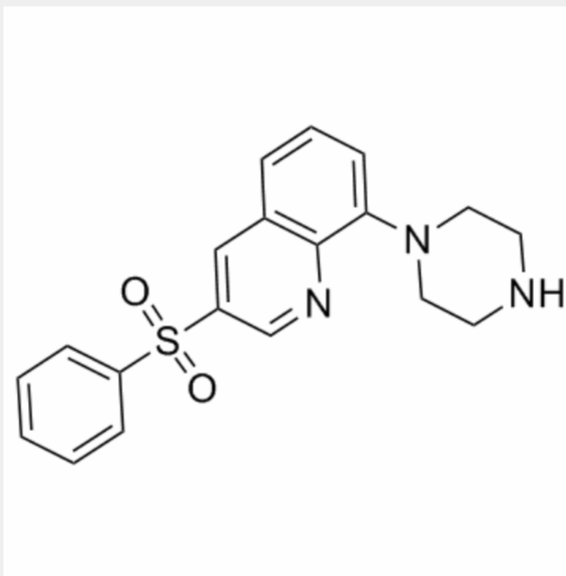
353.44

Product Description

Intepirdine (SB742457) is a highly selective 5-HT₆ receptor antagonist with pK_i of 9.63; exhibits >100-fold selectivity over other receptors.

IC₅₀ & Target: pK_i: 9.63 (5-HT₆ Receptor)^[1].

In Vitro: Intepirdine (SB742457), a 5-HT₆ receptor antagonist, which extends into Alzheimer disease (AD) sufferers further highlights the therapeutic promise of this mechanistic approach. Alzheimer's disease is a devastating neurological condition characterized by a progressive decline in cognitive performance accompanied by behavioral and psychological syndromes, such as depression and psychosis. With the subsequent development of selective 5-HT₆ receptor antagonists, preclinical studies in rodents and primates have elucidated the function of this receptor subtype in more detail. It is increasingly clear that blockade of 5-HT₆ receptors leads to an improvement of cognitive performance in a wide variety of learning and memory paradigms and also results in anxiolytic and antidepressant-like activity. Intepirdine (SB742457) is generally safe and well tolerated and may be efficacious in Alzheimer disease.



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