

# 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:**

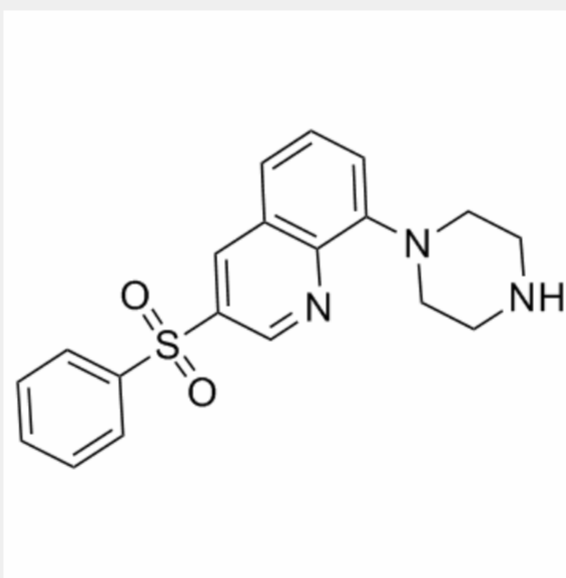
353.44

**Product Description**

Intepirdine (SB742457) is a highly selective 5-HT<sub>6</sub> receptor antagonist with pK<sub>i</sub> of 9.63; exhibits >100-fold selectivity over other receptors.

IC<sub>50</sub> & Target: pK<sub>i</sub>: 9.63 (5-HT<sub>6</sub> Receptor)<sup>[1]</sup>.

**In Vitro:** Intepirdine (SB742457), a 5-HT<sub>6</sub> 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-HT<sub>6</sub> 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-HT<sub>6</sub> 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.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!