

5-HT_{1A} modulator 1

Catalog No: tcsc0018442



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg



Specifications

CAS No:

142477-34-7

Formula:

$C_{21}H_{25}N_3O_2S$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

383.51

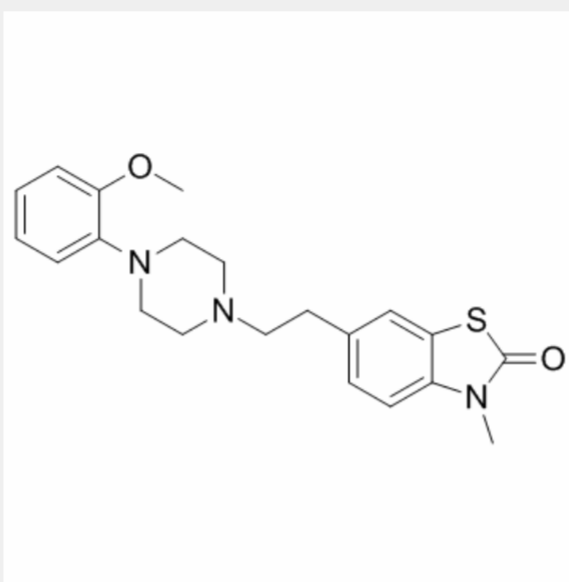
Product Description

5-HT_{1A} modulator 1 displays very high affinities for the **5HT_{1A}**, **adrenergic α₁** and **dopamine D₂ receptor** with **IC₅₀s** of 2 ±0.3 nM, 10 ± 3 nM and 40 ±9 nM, respectively.

IC50 & Target: IC50: 2 ± 0.3 nM (5-HT_{1A} receptor), 300 ± 55 nM (5-HT_{1B} receptor), 500 ± 75 nM (5-HT_{2A} receptor), 4000 ± 440 nM (5-HT_{2C} receptor), 10 ± 3 nM (Adrenergic α_1 receptor), 40 ± 9 nM (Dopamine D₂ receptor)^[1]

In Vitro: 5-HT1A modulator 1 (Compound 24) also displays affinities for the 5HT_{1B}, 5-HT_{2A} and 5-HT_{2C} receptor with IC₅₀s of 300 ± 55 nM, 500 ± 75 nM, and 4000 ± 440 nM, respectively^[1].

In Vivo: 5-HT1A modulator 1 (Compound 24) shows clear antagonist action at 5HT_{2A} receptor subtype in mice. The antagonism is nearly complete at the dose of 1 mg/kg ip for 5-HT1A modulator 1 (94% of antagonism, p[1]).



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