

**Product Name** : SB 271046 hydrochloride

**Synonyms** : SB 271046A

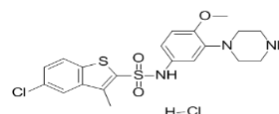
**Cat No.** : M17427

**CAS Number** : 209481-24-3

**Molecular Formula** : C<sub>20</sub>H<sub>22</sub>ClN<sub>3</sub>O<sub>3</sub>S<sub>2</sub>·HCl

**Formula Weight** : 488.45

**Chemical Name** : —



**Description** : SB 271046 hydrochloride is selective, orally active 5-HT<sub>6</sub> antagonist (pK<sub>i</sub> values are 9.02-8.92, 6.35, 6.55, 6.27 at 5-HT<sub>6</sub>, 5-HT<sub>1A</sub>, 5-HT<sub>1D</sub> and D<sub>3</sub>, and 6.05, 5.95, 5.76, 5.73, 5.62, 5.55, 5.41, 5.39, 5.27 and < 4.99 at 5-HT<sub>1B</sub>, 5-HT<sub>1F</sub>, α<sub>1</sub>B, 5-HT<sub>2C</sub>, 5-HT<sub>2A</sub>, D<sub>2</sub>, 5-HT<sub>2B</sub>, 5-HT<sub>7</sub>, 5-HT<sub>4</sub> and 5-HT<sub>1E</sub> respectively) and is > 200-fold selective over 55 other receptors, enzymes and ion channels. It increases extracellular aspartate and glutamate in the frontal cortex and exhibits anticonvulsant activity (EC<sub>50</sub>: 0.16 μM).

**Pathway** : Metabolic Enzyme/Protease

**Target** : Transferase

**Receptor** : 5-HT<sub>6</sub>

**Solubility** : DMSO : 50 mg/mL. 102.36 mM;

**SMILES** : CC1=C(SC2=C1C=C(C=C2)Cl)S(=O)(=O)NC3=CC(=C(C=C3)OC)N4CCNCC4.Cl

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Marcos B, et al. Br J Pharmacol. 2008 Oct;155(3):434-40.