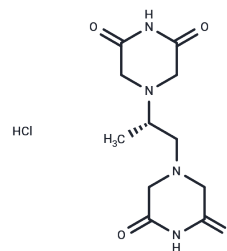


## SB 271046 hydrochloride

## Chemical Properties

CAS No. :	209481-24-3
Formula:	C <sub>20</sub> H <sub>22</sub> ClN <sub>3</sub> O <sub>3</sub> S <sub>2</sub> ·HCl
Molecular Weight:	488.45
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	SB 271046 hydrochloride (SB 271046A) 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).
Targets(IC <sub>50</sub> )	5-HT Receptor

## Solubility Information

Solubility	DMSO: 45 mg/mL (92.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0473 mL	10.2365 mL	20.4729 mL
5 mM	0.4095 mL	2.0473 mL	4.0946 mL
10 mM	0.2047 mL	1.0236 mL	2.0473 mL
50 mM	0.0409 mL	0.2047 mL	0.4095 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

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

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