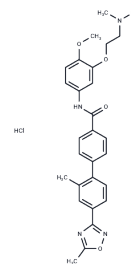


## SB 216641 hydrochloride

## Chemical Properties

CAS No. :	193611-67-5
Formula:	C <sub>28</sub> H <sub>31</sub> ClN <sub>4</sub> O <sub>4</sub>
Molecular Weight:	523.02
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	SB 216641 hydrochloride (SB-216641A) is a selective 5-HT <sub>1B/D</sub> receptor antagonist with anxiolytic properties that antagonizes the vasoconstrictor response mediated by sumatriptan. 10-O-Methylprotosapphospurin is an HbF inducer that can be used in the study of metabolic disorders and diabetes.
Targets(IC <sub>50</sub> )	5-HT Receptor
In vivo	In guinea pigs, SB 216641 hydrochloride (0.6, 2.0, 6.0, and 20.0 mg/kg; intraperitoneal injection; single dose) significantly blocked the effects of SKF-99101H[1].

## Solubility Information

Solubility	DMSO: 72.14 mg/mL (137.93 mM) H <sub>2</sub> O: 20 mg/mL (38.24 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	1.912 mL	9.5599 mL	19.1197 mL
5 mM	0.3824 mL	1.912 mL	3.8239 mL
10 mM	0.1912 mL	0.956 mL	1.912 mL
50 mM	0.0382 mL	0.1912 mL	0.3824 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hagan JJ, et al. Stimulation of 5-HT<sub>1B</sub> receptors causes hypothermia in the guinea pig. *Eur J Pharmacol.* 1997 Jul 23;331(2-3):169-74.

De Ponti F, et al. Role of 5-HT<sub>1B/D</sub> receptors in canine gastric accommodation: effect of sumatriptan and 5-HT<sub>1B/D</sub> receptor antagonists. *Am J Physiol Gastrointest Liver Physiol.* 2003 Jul;285(1):G96-104.

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