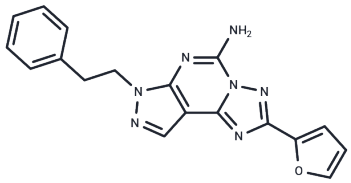
Data Sheet (Cat.No.T6979)

TargetMol
YOUR TARGET MOLECULES

SCH 58261

Chemical Properties



CAS No. : 160098-96-4

Formula: C18H15N7O

Molecular Weight: 345.36

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	SCH 58261 is a potent and selective A2a adenosine receptor antagonist.The Ki =2.3 nM for rat A2a and 2 nM is for bovine A2a.
Targets(IC50)	Adenosine Receptor
In vitro	SCH 58261 causes the inhibition of rabbit platelet aggregation and porcine coronary artery relaxation by antagonizing competitively the effects induced by CGS 21680. [1]
In vivo	In mice with Spinal cord injury, SCH58261 (0.01 mg/kg, i.p.) reduces demyelination and levels of TNF-α, Fas-L, PAR, Bax expression and activation of JNK MAPK. Chronic SCH58261 administration improves the neurological deficit up. [2] In rats with 6-OHDA-induced Parkinson's disease, SCH58261 (2 mg/kg, i.p.) improves the 6-OHDA-induced bradykinesia and motor disturbance. [3]

Solubility Information

Solubility	DMSO: 34.5 mg/mL (100 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8955 mL	14.4776 mL	28.9553 mL
5 mM	0.5791 mL	2.8955 mL	5.7911 mL
10 mM	0.2896 mL	1.4478 mL	2.8955 mL
50 mM	0.0579 mL	0.2896 mL	0.5791 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

Zocchi C, et al. J Pharmacol Exp Ther. 1996, 276(2), 398-404.
Chen J, Li T, Huang D, et al.Integrating UHPLC-MS/MS quantitative analysis and exogenous purine