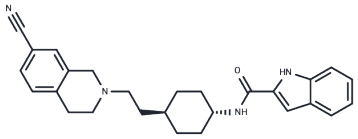
Data Sheet (Cat.No.T16857)

TargetMol
YOUR TARGET MOLECULES

SB269652

Chemical Properties



CAS No. : 215802-15-6

Formula: C27H30N4O

Molecular Weight: 426.55

Appearance: no data available

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

Biological Description

Description	SB269652 is the first drug-like allosteric modulator of the dopamine D2 receptor.
Targets(IC50)	Others
In vitro	D3 receptor antagonist SB269,652 effectively abolished specific binding of [(3)H]nemanopride and [(3)H]spiperone to Chinese hamster ovary-transfected D(3) receptors when radioligands were used at 0.2 and 0.5 nM, respectively. However, SB269,652 only submaximally inhibited the specific binding of these radioligands when they were employed at 10-fold higher concentrations even at high concentrations (5 μM). By analogy, although SB269,652 potently blocked D(3) receptor-mediated activation of Gα(i3) and phosphorylation of extracellular-signal-regulated kinase (ERK)1/2, when concentrations of dopamine were increased by 10-fold, from 1 μM to 10 μM, SB269,652 only submaximally inhibited dopamine-induced stimulation of Gα(i3) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3444 mL	11.722 mL	23.4439 mL
5 mM	0.4689 mL	2.3444 mL	4.6888 mL
10 mM	0.2344 mL	1.1722 mL	2.3444 mL
50 mM	0.0469 mL	0.2344 mL	0.4689 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

Silvano E, et al. The tetrahydroisoquinoline derivative SB269,652 is an allosteric antagonist at dopamine D3 and D2 receptors. Mol Pharmacol. 2010 Nov;78(5):925-34.

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