

SB269652

Catalog No: tcsc3323



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

215802-15-6

Formula:

$C_{27}H_{30}N_4O$

Pathway:

GPCR/G Protein;Neuronal Signaling

Target:

Dopamine Receptor;Dopamine Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

426.55

Product Description

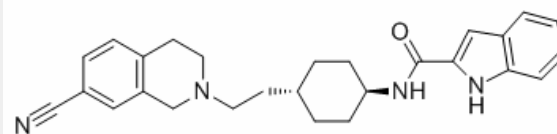
SB269652 is the first drug-like allosteric modulator of the dopamine D2 receptor (D2R); a new chemical probe that can differentiate

D2R monomers from dimers or oligomers depending on the observed pharmacology.

IC50 value: 0.2/0.5 nM [1]

Target: D3 receptor antagonist

SB269,652 potently (low nanomolar range) 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, even at high concentrations (5 μ M), SB269,652 only submaximally inhibited the specific binding of these radioligands when they were employed at 10-fold higher concentrations. By analogy, although SB269,652 potently blocked D(3) receptor-mediated activation of G α (i3) and phosphorylation of extracellular-signal-regulated kinase (ERK)1/2, when concentrations of dopamine were increased by 10-fold, from 1 μ M to 10 μ M, SB269,652 only submaximally inhibited dopamine-induced stimulation of G α (i3) [1].



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