Web: www.taiclone.com
Tel: +886-2-2735-9682
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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

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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 μM), 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 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].