Web: www.taiclone.com
Tel: +886-2-2735-9682
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SB 415286

Catalog No: tcsc0951

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
264218-23-7

Formula:
$C_{16}H_{10}ClN_3O_5$

Pathway:
Stem Cell/Wnt;PI3K/Akt/mTOR

Target:
GSK-3;GSK-3

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 83.3 mg/mL (231.57 mM)

Observed Molecular Weight:
359.72

Product Description

SB 415286 is a potent and selective cell permeable inhibitor of **GSK-3α**, with an $\mathbf{IC_{50}}$ of 77.5 nM, and a $\mathbf{K_i}$ of 30.75 nM; SB 415286 is equally effective at inhibiting human **GSK-3α** and **GSK-3β**.

IC50 & Target: IC50: 77.5 nM (GSK-3α)[1]

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Ki: 30.75 nM (GSK-3α)[1]

In Vitro: SB 415286 (SB-415286) inhibits human GSK-3α with an IC_{50} of 77.5 nM, and a K_i of 30.75 nM. SB-415286 stimulates glycogen synthesis in the Chang human liver cell line with EC_{50} of 2.9 μM. SB-415286 stimulates glycogen synthase activity in Chang human liver cells. SB-415286 induces transcription of a β-catenin-LEF/TCF regulated reporter gene in HEK293 cells[1]. SB 415286 (SB-415286, 5-44 μM) attenuates B65 cell loss mediated by 1 mM H_2O_2. SB-415286 (5-44 μM) causes a significant dose-dependent decrease in the fluorescence intensity of DCF, and attenuates B65 ROS production as mediated by 1 mM H_2O_2. SB-415286 (5-44 μM) also attenuates ROS production in CGN mediated by 1 mM H_2O_2[2]. SB-415286 (50 μM) induces a substantial suppression of immunoprecipitated GSK3 activity by 97%[3].