

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

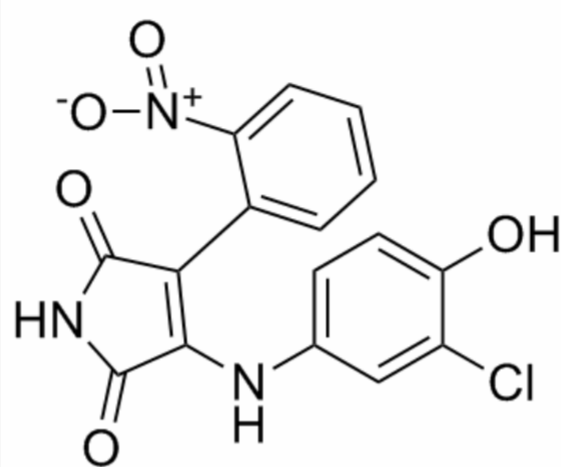
Product Description

SB 415286 is a potent and selective cell permeable inhibitor of **GSK-3 α** , with an **IC₅₀** of 77.5 nM, and a **K_i** of 30.75 nM; SB 415286 is equally effective at inhibiting human **GSK-3 α** and **GSK-3 β** .

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

K_i: 30.75 nM (GSK-3α)^[1]

In Vitro: SB 415286 (SB-415286) inhibits human GSK-3α with an IC₅₀ 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 EC₅₀ 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 H₂O₂. 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 H₂O₂. SB-415286 (5-44 μM) also attenuates ROS production in CGN mediated by 1 mM H₂O₂^[2]. SB-415286 (50 μM) induces a substantial suppression of immunoprecipitated GSK3 activity by 97%^[3].



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