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

SB-505124

Catalog No: tcsc1582

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
694433-59-5

Formula:
$C_{20}H_{21}N_3O_2$

Pathway:
TGF-beta/Smad

Target:
TGF-β Receptor

Purity / Grade:
>98%

Solubility:
DMSO : 113.33 mg/mL (337.90 mM; Need ultrasonic)

Observed Molecular Weight:
335.4

Product Description

SB-505124 is a selective inhibitor of **TGFβR** with **IC_{50}** of 129 nM and 47 nM for **ALK4**, **ALK5**, respectively, and it does not inhibits ALK1, 2, 3, or 6 but ALK7.

IC50 & Target: IC50: 129 nM (ALK4), 47 nM (ALK5)

In Vitro: SB-505124 demonstrates no toxicity to renal epithelial A498 cells at concentrations up to 100 μM for 48 h. 505124 inhibits

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the closely related ALK4 with an IC_{50} value of 129±11 nM (about 2.5-fold less sensitive than ALK5) but does not inhibit ALK2 at concentrations up to 10 μM. SB-505124 (1 μM) inhibits the TGF-β-induced phosphorylation of Smad2 in all three of these cell lines in a concentration-dependent fashion. SB-505124 (1 or 5 μM) potently inhibits TGF-β-induced activation of JNK/SAP, extracellular signal-regulated kinase 1/2, and p38 despite the different patterns of activation in these cells[1]. SB-505124 (10 μM) impairs Smad2 phosphorylation and CTGF and α-SMA expression in vitro[2]. SB-505124 susspresses CTGF and α-SMA observed by immunofluorescence. Cell outgrowth from explants dissected from eyes to which SB-505124 is applied during GFS is robust while outgrowth is poor from those treated with MMC[3].