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

SL327

Catalog No: tcsc0910

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
305350-87-2

Formula:
$C_{16}H_{12}F_3N_3S$

Pathway:
MAPK/ERK Pathway

Target:
MEK

Purity / Grade:
>98%

Solubility:
DMSO : 68 mg/mL (202.77 mM; Need ultrasonic); Ethanol : 0.1 mg/mL (0.30 mM; Need ultrasonic and warming)

Observed Molecular Weight:
335.35

Product Description

SL327 inhibits **MEK1** and **MEK2**, with **IC_{50}** values of 180 nM and 220 nM, respectively.

IC50 & Target: IC50: 180 nM (MEK1), 220 nM (MEK2)[1]

In Vitro:

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

The specificity of SL327 for MEK is investigated. Kinase activity is assessed by measuring the incorporation of [32P]phosphate during phosphorylation of substrate peptides specific for each kinase. Although SL327 inhibits MEK with an IC_{50} of 0.27 μM, 10 μM SL327 has no significant effect on PKA, CaMKII, or PKC[2].

In Vivo: SL327, which crosses the blood-brain barrier, is administered intraperitoneally at several concentrations to animals prior to cue and contextual fear conditioning. Administration of SL327 completely blocks contextual fear conditioning and significantly attenuates cue learning when measure 24 hr after training. Animals treated with SL327 exhibit significant attenuation of water maze learning; they take significantly longer to find a hidden platform compared with vehicle-treated controls and also fail to use a selective search strategy during subsequent probe trials in which the platform is removed. Mice are injected with various concentrations of SL327 (10, 30, 50 mg/kg i.p.), and 1 hr later their hippocampi are removed and assayed for activated MAPK. SL327 attenuates phosphorylated MAPK levels in a dose-dependent manner. Administration of 10, 30, or 50 mg/kg SL327 significantly attenuates p42 phospho-MAPK levels (F=20.90, P[2].