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

SR-3677

Catalog No: tcsc1726

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1072959-67-1

Formula:
$C_{22}H_{24}N_4O_4$

Pathway:
TGF-beta/Smad;Stem Cell/Wnt;Cell Cycle/DNA Damage;Autophagy

Target:
ROCK;ROCK;ROCK;Autophagy

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 43 mg/mL (105.28 mM)

Observed Molecular Weight:
408.45

Product Description

SR-3677 is a potent and selective **ROCK-II** inhibitor with an **IC_{50}** of ~3 nM.

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IC50 & Target: IC50: ~3 nM (ROCK-II)[1]

In Vitro: SR-3677 has an IC_{50} of ~3 nM in enzyme and cell based assays and has an off-target hit rate of 1.4% against 353 kinases, and inhibits only 3 out of 70 nonkinase enzymes and receptors. The IC_{50} value of SR-3677 for ROCK-I is 56±12 nM. The hydrophobic interaction of the benzodioxane phenyl ring with the hydrophobic surface of the pocket is the dominating factor that contributes to the high potency of SR-3677[1].

In Vivo: ExVivo: Pharmacology studies shows that SR-3677 is efficacious in both, increasing *ex vivo* aqueous humor outflow in porcine eyes and inhibiting myosin light chain phosphorylation. Continuous exposure of 25 μM SR-3677 increases the outflow facility by 60% at 1 h perfusion, increasing to 70–80% for the 2–5 h time points[1].