

# 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 :  $\geq 43$  mg/mL (105.28 mM)

**Observed Molecular Weight:**

408.45

## Product Description

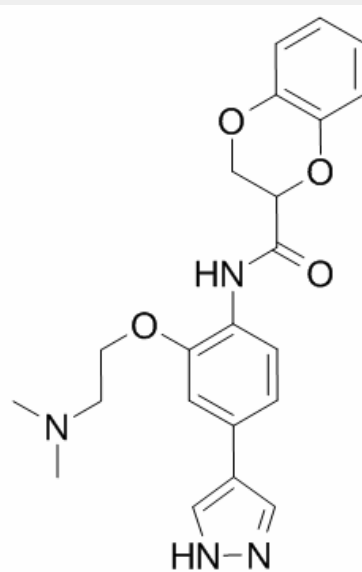
SR-3677 is a potent and selective **ROCK-II** inhibitor with an **IC<sub>50</sub>** of ~3 nM.

IC<sub>50</sub> & Target: IC<sub>50</sub>: ~3 nM (ROCK-II)<sup>[1]</sup>

**In Vitro:** SR-3677 has an IC<sub>50</sub> 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<sub>50</sub> 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<sup>[1]</sup>.

**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<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!