

## H-1152

Catalog No: tcsc1536

Available Sizes

Size: 5mg

Size: 10mg

**Specifications** 

CAS No:

451462-58-1

#### Formula:

 $C_{16}H_{21}N_{3}O_{2}S$ 

Pathway:

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

#### **Target:**

ROCK;ROCK;ROCK

#### Purity / Grade:

>98%

#### **Solubility:** 10 mM in DMSO

# **Observed Molecular Weight:** 319.42

### **Product Description**

H-1152 is a membrane-permeable and selective **ROCK** inhibitor, with a **K**<sub>i</sub> value of 1.6 nM, and an **IC**<sub>50</sub> value of 12 nM for **ROCK2**.

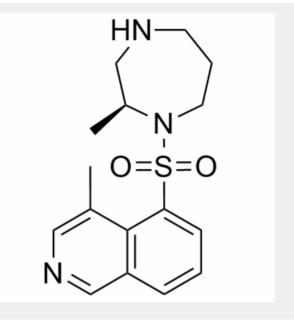
IC50 & Target: IC50: 12 nM (ROCK2)<sup>[1]</sup>

Ki: 1.6 nM (ROCK)<sup>[2]</sup>

Copyright 2021 Taiclone Biotech Corp.



*In Vitro:* H-1152 is an inhibitor of Rho-kinase, with an IC<sub>50</sub> of 12 nM for ROCK2. H-1152 (H-1152P) also shows less inhibitory activities against CaMKII, PKG, AuroraA, PKA, Src, PKC, MLCK, AbI, EGFR, MKK4, GSK3 $\alpha$ , AMPK, and P38 $\alpha$ , with IC<sub>50</sub>s of 0.180, 0.360, 0.745, 3.03, 3.06, 5.68, 28.3, 7.77, 50.0, 16.9, 60.7, 100, and 100  $\mu$ M, respectively<sup>[1]</sup>. H-1152 potently inhibits Rho kinase, with a K<sub>i</sub> of 1.6 nM, and slightly suppresses PKA, PKC and MLCK, with K<sub>i</sub>s of 0.63, 9.27, and 10.1  $\mu$ M, respectively. H-1152 (0.1-10  $\mu$ M) highly inhibits MARCKS phosphorylation, with an IC<sub>50</sub> value of 2.5  $\mu$ M in LPA-treated cells, but shows no such obvious effects in PDBu-treated cells<sup>[2]</sup>. H-1152 (0.5-10  $\mu$ M) cuases no decreased neuronal survival. H-1152 (1, 5 or 10  $\mu$ M) also exerts no alterations in the ratios of different neuronal morphologies. Furthermore, H-1152 (10  $\mu$ M) increases neurite length in both BMP4 and LIF cultures<sup>[3]</sup>.



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

Copyright 2021 Taiclone Biotech Corp.