

# H-1152 (dihydrochloride)

Catalog No: tcsc1537



## Available Sizes

Size: 5mg

Size: 10mg



## Specifications

### CAS No:

871543-07-6

### Formula:

$C_{16}H_{23}Cl_2N_3O_2S$

### Pathway:

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

### Target:

ROCK; ROCK; ROCK

### Purity / Grade:

>98%

### Solubility:

DMSO :  $\geq 32$  mg/mL (81.56 mM)

### Observed Molecular Weight:

392.34

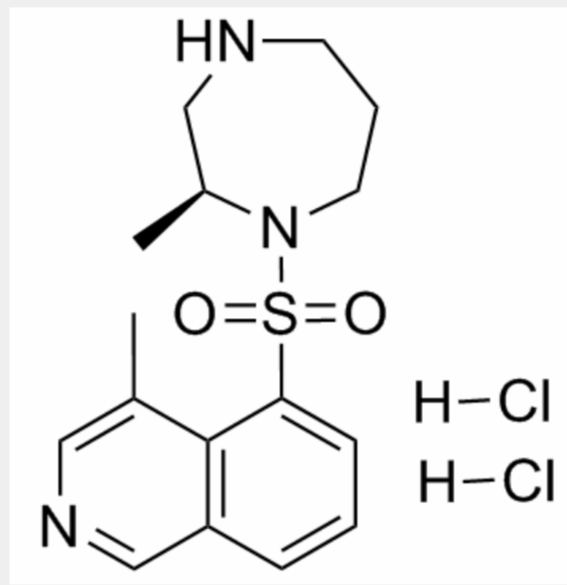
## Product Description

H-1152 dihydrochloride 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>

K<sub>i</sub>: 1.6 nM (ROCK)<sup>[2]</sup>

**In Vitro:** H-1152 dihydrochloride 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, Abl, 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) causes 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!