Web: www.taiclone.com
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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 : ≥ 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 $\mathbf{K_i}$ value of 1.6 nM, and an $\mathbf{IC_{50}}$ value of 12 nM for **ROCK2**.

IC50 & Target: IC50: 12 nM (ROCK2)[1]

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Ki: 1.6 nM (ROCK)[2]

In Vitro: H-1152 dihydrochloride is an inhibitor of Rho-kinase, with an IC_{50} 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, GSK3α, AMPK, and P38α, with IC_{50}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 μM, respectively[1]. H-1152 potently inhibits Rho kinase, with a K_i of 1.6 nM, and slightly suppresses PKA, PKC and MLCK, with K_is of 0.63, 9.27, and 10.1 μM, respectively. H-1152 (0.1-10 μM) highly inhibits MARCKS phosphorylation, with an IC_{50} value of 2.5 μM in LPA-treated cells, but shows no such obvious effects in PDBu-treated cells[2]. H-1152 (0.5-10 μM) cuases no decreased neuronal survival. H-1152 (1, 5 or 10 μM) also exerts no alterations in the ratios of different neuronal morphologies. Furthermore, H-1152 (10 μM) increases neurite length in both BMP4 and LIF cultures[3].