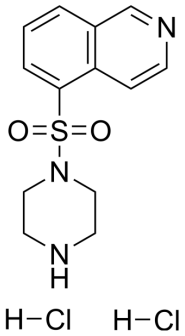
HA-100 dihydrochloride

Cat. No.:	HY-12880
CAS No.:	210297-47-5
Molecular Formula:	$C_{13}H_{17}Cl_2N_3O_2S$
Molecular Weight:	350.26
Target:	Myosin; PKA; PKC; ROCK
Pathway:	Cytoskeleton; Stem Cell/Wnt; Epigenetics; TGF-beta/Smad; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HA-100 dihydrochloride is a potent protein kinase inhibitor, with IC_{50}s of 4 μM, 8 μM, 12 μM and 240 μM for cGMP-dependent protein kinase (PKG), cAMP-dependent protein kinase (PKA), protein kinase C (PKC) and MLC-kinase, respectively. HA-100 dihydrochloride also used as a ROCK inhibitor[1][2].

IC_{50} & Target				
	PKA 8 μM (IC_{50})	PKC 12 μM (IC_{50})	PKC 6.5 μM (Ki)	PKG 4 μM (IC_{50})
	MLCK 240 μM (IC_{50})	MLCK 61 μM (Ki)		

In Vitro	HA-100 dihydrochloride inhibits MLC-kinase and PKC competitively with respect to ATP, with K_is of 61 and 6.5 μM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Am J Physiol Cell Physiol. 2019 Dec 1;317(6):C1115-C1127.

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REFERENCES

[1]. Hagiwara M, et, al. Selective modulation of calcium-dependent myosin phosphorylation by novel protein kinase inhibitors, isoquinolinesulfonamide derivatives. Mol Pharmacol. 1987 Jul;32(1):7-12.

[2]. Yu J, et, al. Efficient feeder-free episomal reprogramming with small molecules. PLoS One. 2011 Mar 1;6(3):e17557.

Caution: Product has not been fully validated for medical applications. For research use only.

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