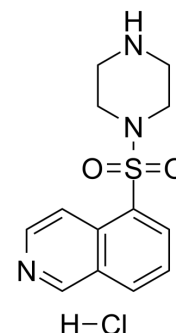


HA-100 hydrochloride

Cat. No.:	HY-100984A
CAS No.:	141543-63-7
Molecular Formula:	C ₁₃ H ₁₆ ClN ₃ O ₂ S
Molecular Weight:	313.8
Target:	PKA; PKC; Myosin; ROCK
Pathway:	Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; Epigenetics; TGF-beta/Smad; Cytoskeleton; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HA-100 hydrochloride 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 hydrochloride also used as a ROCK inhibitor ^{[1][2]} .			
IC₅₀ & Target	PKG 4 μM (IC ₅₀)	PKA 8 μM (IC ₅₀)	PKC 12 μM (IC ₅₀)	MLCK 240 μM (IC ₅₀)
	ROCK			
In Vitro	HA-100 hydrochloride inhibits MLC-kinase and PKC competitively with respect to ATP, with K _i s 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.

See more customer validations on www.MedChemExpress.com

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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