

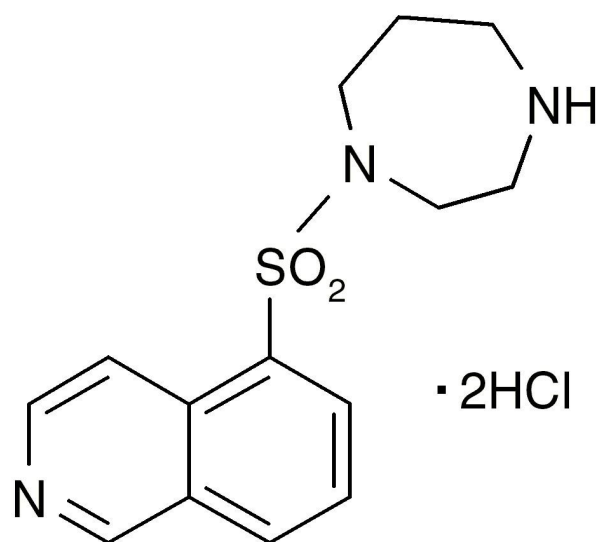
Cat No. 61-F49

HA-1077 (dihydrochloride)

10 mg

HA-1077 is a potent inhibitor of Rho-associated kinase II (ROCK-II), and also inhibits Protein Kinase C-related kinase 2 (PRK2), Mitogen- and Stress-Activated Protein Kinase (MSK1), and Mitogen Activated Protein Kinase-Activated Protein Kinase 1b (MAPKAP-K1b). HA-1077 is a novel vasodilator agent which inhibits vascular smooth muscle contraction by acting as an intracellular Ca^{2+} antagonist. Through the inhibition of Rho-kinase, HA-1077 has been shown to reduce blood vessel constriction, decrease pulmonary arterial pressure, inhibit tumor angiogenesis, and improve insulin signaling in rodent models.

TECHNICAL INFORMATION



Other Names: hexahydro-1-(5-isoquinolinylsulfonyl)-1H-1,4-diazepine, dihydrochloride, Eril, Fasudil

Chemical Formula: $\text{C}_{14}\text{H}_{17}\text{N}_3\text{O}_2\text{S} \cdot 2\text{HCl}$

CAS Number: 203911-27-7

Molecular Weight: 364.3

Purity: >98%

Appearance: a crystalline solid

Solubility: DMSO



For research purposes only

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO up to 10mg/ml. Soluble in water up to 200 mg/ml. If precipitate is observed, vortex for 5 minutes.

REFERENCES

1. Yin et al. (2007) Fasudil inhibits vascular endothelial growth factor-induced angiogenesis in vitro and in vivo. *Mol Cancer Ther.* 6(5):1517-25.
2. Shirotani et al. (1991) A new type of vasodilator, HA1077, an isoquinoline derivative, inhibits proliferation of bovine vascular smooth muscle cells in culture. *J Pharmacol Exp Ther.* 259(2):738-44.
3. Nagumo et al. (2000) Rho kinase inhibitor HA-1077 prevents Rho-mediated myosin phosphatase inhibition in smooth muscle cells. *Am J Physiol Cell Physiol.* 278 (1):C57-85.