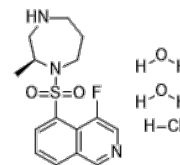


Product Name : Ripasudil
Cat. No. : PC-27872
CAS No. : 887375-67-9
Molecular Formula : C₁₅H₂₃ClFN₃O₄S
Molecular Weight : 395.88
Target : ROCK
Solubility : 10 mM in DMSO



Biological Activity

Ripasudil (K-115) is a potent, specific Rho-associated coiled-coil containing protein kinase (**ROCK**) inhibitor with IC₅₀ of 51 nM and 19 nM for **ROCK1** and **ROCK2** respectively.

Ripasudil (K-115) significantly reduced intraocular pressure (IOP) in a dose-dependent manner in rabbits.

Ripasudil (K-115) induced retraction and rounding of cell bodies as well as disruption of actin bundles on monkey trabecular meshwork (TM) cells.

Ripasudil (K-115) significantly decreased transendothelial electrical resistance (TEER) and increased the transendothelial flux of FITC-dextran in SCE-cell monolayer permeability studies.

Ripasudil (K-115) disrupted cellular localization of ZO-1 expression in SCE-cell monolayers.

References

Kaneko Y, et al. *Sci Rep*. 2016 Jan 19;6:19640.

Isobe T, et al. *Curr Eye Res*. 2014 Aug;39(8):813-22.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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