

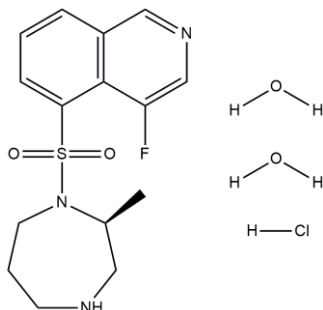
Ripasudil hydrochloride dihydrate

02/20

ALTERNATE NAMES: 4-fluoro-5-[[[(2S)-2-methyl-1,4-diazepan-1-yl]sulfonyl]isoquinoline, dihydrate, hydrochloride; K-115 Hydrochloride Dihydrate; 1H-1,4-Diazepine, 1-((4-fluoro-5-isoquinolinyl)sulfonyl)hexahydro-2-methyl-, monohydrochloride, dihydrate

CATALOG #: B2984-1 1 mg
B2984-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₅H₂₃ClFN₃O₄S

MOLECULAR WEIGHT: 395.88

CAS NUMBER: 887375-67-9

APPEARANCE: White powder

PURITY: 99%

SOLUBILITY: 50 mg/ml in Water

DESCRIPTION: Ripasudil (K-115) is a potent inhibitor of Rho kinase (ROCK), with IC₅₀ values of 19 and 51 nM for ROCK-2 and ROCK-1, respectively. Ripasudil (10 μM) induces cytoskeletal changes, including retraction, cell rounding and reduced actin bundles of cultured trabecular meshwork (TM) cells. It significantly reduces transendothelial electrical resistance (TEER) and increases FITC-dextran permeability in Schlemm's canal endothelial (SCE) cell monolayers at a concentration of 5 μM. A 0.4% ophthalmic solution significantly lowers intraocular pressure (IOP) in rabbits and monkeys. It was the first ophthalmic solution developed for the treatment of glaucoma and ocular hypertension in Japan.

STORAGE TEMPERATURE: -20°C

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Kaneko, Y., Ohta, M., Inoue, T. et al. Effects of K-115 (Ripasudil), a novel ROCK inhibitor, on trabecular meshwork and Schlemm's canal endothelial cells. *Sci. Rep.* 19;6:19640 (2016).

RELATED PRODUCTS:

Hydroxyfasudil Hydrochloride (Cat. No. B1559)
 EZSolution™ Fasudil hydrochloride, Sterile-filtered (Cat. No. B2249)
 ROCK-II Inhibitor (Cat. No. B2934)
 GSK429286A (Cat. No. 2637)
 Fasudil, Monohydrochloride (Cat. No. 1787)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***