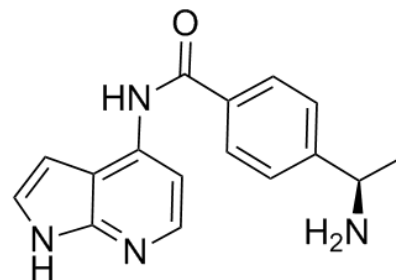


Product Name : Y-39983
Cat. No. : PC-42222
CAS No. : 471843-75-1
Molecular Formula : C₁₆H₁₇N₄O
Molecular Weight : 316.79
Target : ROCK
Solubility : 10 mM in DMSO



Biological Activity

Y-39983 (Y-33075 hydrochloride) is a potent and selective **p160 ROCK** inhibitor with K_i of 140 nM.

Y-39983 displays > 200-fold selectivity for p160ROCK than PKC, cAMP-dependent protein kinase and Myosin light-chain kinase.

Y-39983 promotes regeneration of crushed axons of retinal ganglion cells into the optic nerve of adult cats, shows therapeutic potential for axonal regeneration of RGCs in the treatment of diseases with degenerating axons of RGCs including glaucoma.

References

Sagawa H, et al. *Exp Neurol*. 2007 May;205(1):230-40.

Tokushige H, et al. *Invest Ophthalmol Vis Sci*. 2007 Jul;48(7):3216-22.

Okumura N, et al. *Invest Ophthalmol Vis Sci*. 2014 Jan 15;55(1):318-29.

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

E-mail: tech@probechem.com