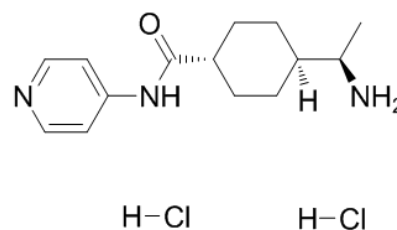


Product Name : Y-27632 dihydrochloride
Cat. No. : PC-42669
CAS No. : 129830-38-2
Molecular Formula : C₁₄H₂₃Cl₂N₃O
Molecular Weight : 320.2579
Target : ROCK
Solubility : DMSO: ≥ 32 mg/mL



Biological Activity

Y-27632 dihydrochloride is a potent, selective **ROCK1** (p160 ROCK) inhibitor with K_i of 140 nM in cell-free assay. Y-27632 exhibits >200-fold selectivity over other kinases, including PKC, cAMP-dependent protein kinase, MLCK and PAK. Y-27632 consistently suppresses Rho-induced, p160ROCK-mediated formation of stress fibres in cultured cells and dramatically corrects hypertension in several hypertensive rat models.

References

Uehata M, et al. *Nature*. 1997 Oct 30;389(6654):990-4.
Hirose M, et al. *J Cell Biol*. 1998 Jun 29;141(7):1625-36.
Ishizaki T, et al. *Mol Pharmacol*. 2000 May;57(5):976-83.

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

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