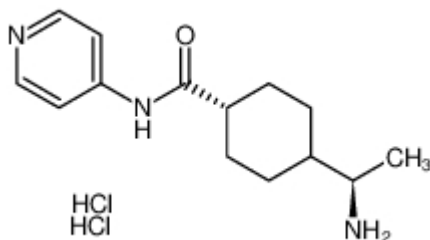


Y-27632 dihydrochloride (CAS: 129830-38-2)**Catalog #: EBC51165****Biological Activity**

Synonyms	Y-27632 (hydrochloride); Y-27632; Y27632 HCl
Chemical Name	4-[(1R)-1-aminoethyl]-N-pyridin-4-ylcyclohexane-1-carboxamide
Application	Y-27632 dihydrochloride is a cell permeable inhibitor of ROCK-1 and ROCK-2 which plays an important role in Rho-mediated cell adhesion and smooth muscle contraction.
CAS No.	129830-38-2
Purity	≥99.0%
Molecular Weight	320.26
Molecular Formula	C ₁₄ H ₂₃ Cl ₂ N ₃ O
Shipping	Gel Pack
Storage	Store at 2-8° C
Target & IC₅₀	ROCK-I: K _i = 140 nM

Molecular Structure**Solubility**

DMSO: 300.0 mg/mL (936.7 mM)

Water: 100.0 mg/mL (312.2 mM)

PS: < 1 mg/ml refers to the product insoluble**Description**

Y-27632 dihydrochloride is a selective Rho-kinase inhibitor. Y-27632 dihydrochloride suppresses cholinergic nerve-mediated contractions. In addition, studies show that Y-27632 dihydrochloride increases the release of neurotransmitters from cholinergic nerves. Studies conducted on smooth muscle preparations suggest that Y-27632 dihydrochloride suppresses nerve-mediated contractile responses stimulated by acetylcholine and noradrenaline. Furthermore, studies on lung tissue damage in rats suggest that Y-27632 dihydrochloride can restore the damage caused by oleic acid by inhibition of ROCK-1 and ROCK-2. Y-27632 dihydrochloride also inhibits protein kinase C related kinase, PRK2.

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