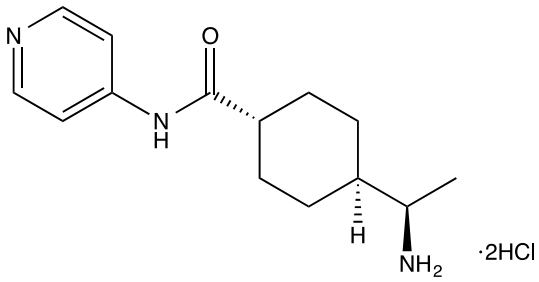
Catalog # 10-2301

Y-27632 dihydrochloride

CAS# 129830-38-2

(R)-(+)-trans-4-(1-Aminoethyl)-N-(-4-pyridyl)cyclohexanecarboxamide dihydrochloride

Lot # X101336



Specific inhibitor of ROCK family kinases.[1] Enhances stem cell survival and proliferation in culture.[2] Significantly improves freeze/thaw survival rate for human embryonic stem cells without influencing morphology, karyotype, cell surface markers, or differentiation potential.[3]

1) Ishizaki *et al*. (2000), *Pharmacological Properties of Y-27632, a Specific Inhibitor of Rho-Associated Kinases*; Mol. Pharmacol., **57** 976
2) Gauthaman *et al*. (2010), *Effects of ROCK Inhibitor Y-27632 on Normal and Variant Human Embryonic Stem Cells (hESCs) In Vitro: It's Benefits in hESC Expansion*; Stem Cell Rev., **6** 86
3) Li *et al*. (2008), *The ROCK Inhibitor Y-27632 enhances the Survival Rate of Human Embryonic Stem Cells Following Cryopreservation*; Stem Cells Dev., **17** 1079
4) Morel *et al.* (2018), *Proteomics Reveals Scope of Mycolactone-mediated Sec61 Blockade and Distinctive Stress Signature Y-27632*; Mol. Cell. Proteomics, **17** 1750 [Focus Citation]

PHYSICAL DATA

Molecular Weight:	320.26
Molecular Formula:	$C_{14}H_{21}N_3O \cdot 2HCl$
Purity:	99% by HPLC NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Methanol (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20ºC for up to 2 years from the date of purchase. Solutions in DMSO or methanol may be stored at -20°C for up to 3 months.

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