

Y-27632 2HCl

#Cat : NB-26-02080

size : 50mg

#Cat : NB-26-02080-250mg

size : 250mg

Catalog #:	NB-26-02080	Product Type:	Small Molecule
Bio-Activity:	ROCK family kinase inhibitor	CAS #:	129830-38-2
Research Categories:	Stem cells, neuroscience, inflammation, ageing, diabetes, cancer	Chemical Name:	(R)-(+)-trans-4-(1-Aminoethyl)-N-(-4 pyridyl)cyclohexanecarboxamide dihydrochloride
Solubility:	Soluble in DMSO up to 25 mg/ml) or in Methanol (up to 25 mg/ml)	Molecular Formula:	C ₁₄ H ₂₁ N ₃ O · 2HCl
Purity:	> 98%	Molecular Weight:	320.26
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes :**Description/Data:**

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].

References:

- 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), Effect of ROCK Inhibitor Y-27632 on Normal and Variant Human Embryonic Stem Cells (hESCs) In Vitro: Its 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

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