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Y-27632 dihydrochloride (Qk1104)



Type: Small molecules

Available for purchase: unit size (mg): 5, 10

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Product Information

Y-27632 dihydrochloride (Y-27632.2HCl) is an orally potent, ATP-competitive inhibitor of Rho associated coiled coil protein kinase (ROCK). ROCK pathway plays an important role in cell polarity, proliferation, adhesion and migration. Y-27632 dihydrochloride can be used in embryonic and pluripotent stem cell culture to decrease apoptosis and increase survival and proliferation, particularly during passaging and thawing.

Qkine Y-27632 dihydrochloride (Qk1104) is highly pure and validated in iPSC culture and differentiation.

Alternative protein names

Y-27632.2HCl, Y-27632 2HCl

Product Size Wording

Sourced from a trusted supplier and order fulfilled by Qkine

Molecular weight

Molecular Weight: 320.26

Protein Uniprot number

Cas No. 129830-38-2

Product Information

- Chemical name: 4-[(1R)-1-aminoethyl]-N-4-pyridinyl-trans-cyclohexanecarboxamide, dihydrochloride
- Formula: $C_{14}H_{21}N_3O \cdot 2HCl$
- Storage: powder -20°C for 1 year, in solvent -80°C for 1 year
- Solubility in DMSO 255 mg/ml, water 32 mg/ml

Featured applications

- Induced pluripotent stem cell culture and maintenance
- Differentiation of iPSC into endoderm, mesoderm and ectoderm
- Differentiation of midbrain dopaminergic neurons
- Stem cell differentiation into neural and microglial lineages
- Differentiation of induced pluripotent stem cells to astrocytes

Further quality assays

- >99% purity
- HPLC/HNMR: Consistent with structure

Scientific Information

Bioactivity

Preparation of Y-27632 dihydrochloride stock solution in DMSO/H_2O

	1 mg	5 mg	10 mg
1 mM	3.12 ml	15.61 ml	31.22 ml
5 mM	0.62 ml	3.12 ml	6.24 ml
10 mM	0.31 ml	1.56 ml	3.12 ml
20 mM	0.16 ml	0.78 ml	1.56 ml

Original product page: https://qkine.com/product/y-27632-dihydrochloride-qk1104/

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