bio-techne
TOCRIS

Print Date: Mar 11th 2026

Certificate of Analysis

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Product Name: **Y-27632 in solution** **Catalog No.: 7000** **Batch No.: 4**

CAS Number: 129830-38-2

IUPAC Name: *trans*-4-[(1*R*)-1-Aminoethyl]-*N*-4-pyridinylcyclohexanecarboxamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{14}H_{21}N_3O.2HCl$

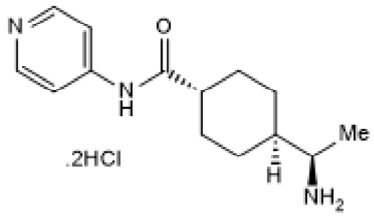
Batch Molecular Weight: 320.26

Physical Appearance: Colourless solution

Solubility: Soluble in water (supplied pre-dissolved at a concentration of 10mM)

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

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Description:

Y-27632 in solution is a convenient and ready-to-use 10 mM sterile-filtered solution of Y-27632 (Cat. No. 1254), pre-dissolved in water. Increases survival rate of human embryonic stem (hES) cells and iPSC undergoing cryopreservation. Optimizes naive human pluripotent stem cell growth and viability following naive cell derivation from primed ESCs and iPSCs using naive human stem cell medium (NHSM). Used as a component of growth media for urothelial organoids and in a protocol to generate brain organoids from human iPSCs. Supplied in vials containing a minimum of 1 mL of Y-27632 solution.

Physical and Chemical Properties:

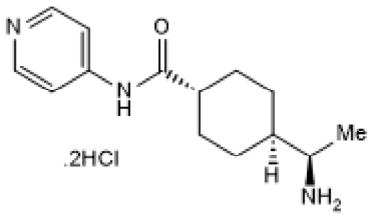
Batch Molecular Formula: $C_{14}H_{21}N_3O.2HCl$

Batch Molecular Weight: 320.26

Physical Appearance: Colourless solution

Minimum Purity: ≥97%

Batch Molecular Structure:



Solubility & Usage Info:

Water (supplied pre-dissolved at a concentration of 10mM)

This product is supplied as a 10mM sterile-filtered solution in water. Standard retail vials are 4mg of Y-27632 dihydrochloride in at least 1.2ml of water.

Stability and Storage Advice:

For long-term storage, it is recommended to store this product at -20°C or below, away from light. The product can be stored for up to 6 months from date of receipt.

We recommend that stock solutions are stored in single-use aliquots in tightly sealed vials at -20°C, away from light.

The product can also be stored for up to 4 weeks at +4°C away from light.

References:

Schafer *et al* (2023) An *in vivo* neuroimmune organoid model to study human microglia phenotypes. Cell ***186*** 2111. PMID: 37172564.

Wilson *et al* (2016) Cryopreservation of brain endothelial cells derived from human induced pluripotent stem cells is enhanced by Rho-associated coiled coil-containing kinase inhibition. Tissue.Eng.Part C.Methods ***22*** 1085. PMID: 27846787.

Ichikawa *et al* (2011) Freeze-thawing single human embryonic stem cells induce e-cadherin and actin filament network disruption via g13 signaling. Cryo Letters ***32*** 516. PMID: 22227712.

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