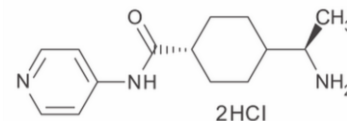


Y27632

Catalog Number: ST10019



Size	10 mg
Description	Y27632 is a cell-permeable small molecule Rho-associated kinase (ROCK) inhibitor. Y27632 has been found to prevent apoptosis as well as enhance the survival and cloning efficiency of dissociated human ES cells without affecting their self-renewal properties or pluripotency. This molecule has also been shown to enhance survival during the transplantation of ES cell-derived neural precursors and to significantly improve cell recovery after cryopreservation.
Molecular Weight	320.26
Molecular Formula	C ₁₄ H ₂₃ Cl ₂ N ₃ O
Chemical Name	(1R,4r)-4-((R)-1-aminoethyl)-N-(pyridin-4-yl)cyclohexanecarboxamide dihydrochloride
CAS Number	146986-50-7
PubChem Identifier	9901617
Appearance	White solid
Purity	>98% by HPLC analysis
Solubility	Soluble in DMSO at 50 mM and water at 50 mM
Reconstitution	For a 10 mM concentrated stock solution of Y27632, reconstitute the compound by adding 3.12 mL of DMSO to the entire contents of vial. If precipitate is observed, warm the solution to 40°C for 2 to 5 minutes. For use in cell culture, warm the medium just prior to adding the reconstituted compound. Once the compound is added, mix and filter-sterilize the medium using a 0.2 µM low-protein binding filter.
Storage and Stability	Solid: Shipped at room temperature. Store at -20°C. Stable for 6 months when stored as directed. Solution: Following reconstitution, store aliquots in tightly sealed vials at -20°C. Avoid repeated freeze-thaw cycles.
References	Koyanagi, M., et al. (2008) Inhibition of the Rho/ROCK pathway reduces apoptosis during transplantation of embryonic stem cell-derived neural precursors. <i>J Neurosci Res</i> 86: 270-280. PMID: 17828770. Watanabe, K., et al. (2007) A ROCK inhibitor permits survival of dissociated human embryonic stem cells. <i>Nat Biotechnol</i> 25: 681-686. PMID: 17529971. Li, X., et al. (2009) ROCK inhibitor improves survival of cryopreserved serum/feeder-free single human embryonic stem cells. <i>Hum Reprod</i> 24: 580-589. PMID: 19056770.

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