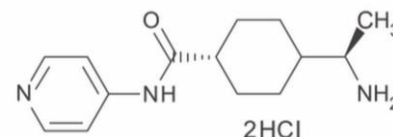


# Y27632

Catalog Number: ST10020



Size	625 µL
Concentration	10 mM in DMSO
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 <sub>14</sub> H <sub>23</sub> Cl <sub>2</sub> N <sub>3</sub> O
Chemical Name	(1R,4r)-4-((R)-1-aminoethyl)-N-(pyridin-4-yl)cyclohexanecarboxamide dihydrochloride
CAS Number	146986-50-7
PubChem Identifier	9901617
Appearance	Colorless liquid
Purity	>98% by HPLC analysis
Formulation	2 mg Y27632 in 625 µL of DMSO, filter sterilized
Recommended Usage	Aliquoting the stock solution is recommended to avoid repetitive freeze-thaw cycles. For use in cell culture, media should be warmed prior to adding the reconstituted compound. Note: for most cells, the maximum tolerance to DMSO is less than 0.5%.
Storage and Stability	Store at -20°C. Stable for 6 months when stored as directed. Avoid repeated freeze-thaw cycles.
References	<p>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.</p> <p>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.</p> <p>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.</p>

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