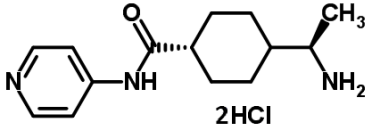


Product Specification Sheet

Product Name	Stemolecule™ Y27632 in Solution
Description	Y27632 is a cell-permeable small molecule Rho-associated kinase (ROCK) inhibitor ¹ . Y27632 has been found to prevent apoptosis as well as enhance the survival and cloning efficiency of dissociated human embryonic stem (ES) cells without affecting their self-renewal properties or pluripotency ² . This molecule has also been shown to enhance survival during the transplantation of ES cell-derived neural precursors ³ . Y27632 in combination with Pifithrin-μ significantly improves cell recovery after cryopreservation ⁴ . Stemolecule Y27632 in Solution is a ready to use 10 mM stock solution for stem cell culture.
Catalog Number	04-0012-02
Size	2 mg
Concentration	10 mM in DMSO
Alternate Name	(1R,4r)-4-((R)-1-aminoethyl)-N-(pyridine-4-yl)cyclohexanecarboxamide dihydrochloride
Chemical Formula	C ₁₄ H ₂₃ Cl ₂ N ₃ O
Structure	
Molecular Weight	320.3
CAS Number	146986-50-7
Purity	Greater than 97% by HPLC analysis
Formulation	10 mM solution of Y27632 in DMSO (2 mg in 624.4 μl)
Handling	Before opening, briefly centrifuge the vial to ensure full recovery of sample. Aliquoting the stock solution is recommended to avoid repetitive freeze-thaw cycles. For cell culture, the media should be prewarmed prior to adding the reconstituted compound. Note: for most cells, the maximum tolerance to DMSO is less than 0.5%.
Storage and Stability	Store solution at -20°C protected from light. Stable for 6 months from date of receipt when stored as directed.
Quality Control	The purity of Y27632 was determined by HPLC analysis. The accurate mass was determined by mass spectrometry. Cellular toxicity of Y27632 was tested on mouse embryonic stem cells.

For research use only. Not for use in diagnostic procedures.

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Product Specification Sheet

References

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