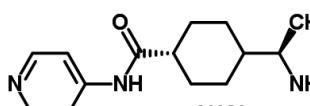


## Product Specification Sheet

<b>Product Name</b>	Stemolecule™ Y27632
<b>Description</b>	Y27632 is a cell-permeable small molecule Rho-associated kinase (ROCK) inhibitor <sup>1</sup> . 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 <sup>2</sup> . This molecule has also been shown to enhance survival during the transplantation of ES cell-derived neural precursors <sup>3</sup> . Y27632 in combination with Pifithrin- $\mu$ significantly improves cell recovery after cryopreservation <sup>4</sup> .
<b>Catalog Number</b>	AMS.04-0012-10
<b>Size</b>	10 mg
<b>Alternate Name</b>	(1R,4r)-4-((R)-1-aminoethyl)-N-(pyridine-4-yl)cyclohexanecarboxamide dihydrochloride
<b>Chemical Formula</b>	C <sub>14</sub> H <sub>23</sub> Cl <sub>2</sub> N <sub>3</sub> O
<b>Structure</b>	 2HCl
<b>Molecular Weight</b>	320.3
<b>CAS Number</b>	146986-50-7
<b>Purity</b>	Greater than 97% by HPLC analysis
<b>Formulation</b>	White solid
<b>Solubility</b>	For a 10 mM concentrated stock solution of Y27632, reconstitute the compound by adding 3.12 ml of DMSO to the entire contents of the vial. If precipitate is observed, warm the solution to 37°C for 2 to 5 minutes. 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%. This molecule is soluble in DMSO at 100 mM
<b>Storage and Stability</b>	Store powder at 4°C protected from light. Following reconstitution, store aliquots at -20°C. Stock solutions are stable for 6 months when stored as directed.
<b>Quality Control</b>	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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