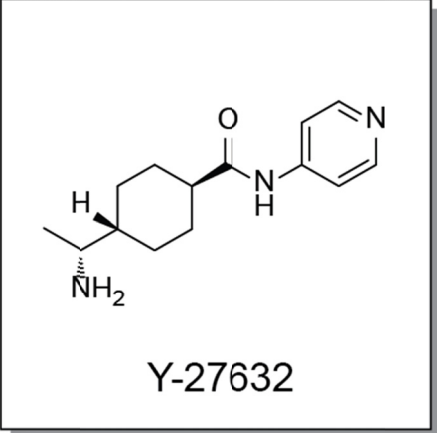




Product Specification Sheet

Product Name: Y-27632	
Catalog Number: C9127-2 (powder) C9127-2s (10 mM in DMSO)	
Package Size: 2 mg	
Technical information:	
Chemical Formula:	C ₁₄ H ₂₁ N ₃ O·2HCl
CAS #:	146986-50-7
Molecular Weight:	329.27
Purity:	>98%
Formulation:	white solid
Solubility:	Soluble in DMSO up to 100 mM
Chemical Name:	(1R,4r)-4-((R)-1-aminoethyl)-N-(pyridin-4-yl)cyclohexanecarboxamide
Storage:	Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
Handling:	<ul style="list-style-type: none">• For C9127-2 (powder), add 607 µL of DMSO to make 10 mM solution.• For C9127-2s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full recovery of sample.
Biological Activity:	Y-27632 is widely used as a specific inhibitor of the Rho-associated coiled-coil forming protein serine/threonine kinase (ROCK) family. It has been found to prevent dissociation-induced apoptosis in human embryonic stem cells and enhance the survival and cloning efficiency of dissociated hES cells without affecting their self-renewal properties or pluripotency. Y-27632 can also enhance survival during the transplantation of ES cell-derived neural precursors.
Reference:	<ol style="list-style-type: none">1. Ishizaki, T. et al. Pharmacological properties of Y-27632, a specific inhibitor of rho-associated kinases. <i>Mol Pharmacol</i> (2000) 57: 976-983.2. Koyanagi et al. Inhibition of the Rho/ROCK pathway reduces apoptosis during transplantation of embryonic stem cell-derived neural precursors. <i>J. Neurosci Res</i> (2008) 86: 270-280.3. Watanabe et al. A ROCK inhibitor permits survival of dissociated human embryonic stem cells. <i>Nat Biotech</i> (2007) 25: 681-686.

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