

Product Name: Y-27632 Dihydrochloride

Cat. No.: SMOC-2603-CXX-047

Description: A selective ROCK1/2 inhibitor used as an essential component in stem cell cryopreservation media.

Product Details	
Size	5 mg/25 mg
Synonyms	y27632,Y-27632 2HCl,ROCK inhibitor,ROCK1 inhibitor
Purity	>99% (HPLC), NMR (Conforms)
Formula	C ₁₄ H ₂₁ N ₃ O ₂ HCl
Molecule Mass	320.3
Chemical Name	trans-4-[(1R)-1-Aminoethyl]-N-4-pyridinylcyclohexanecarboxamide dihydrochloride
Target	ROCK
Biological Activity	Y-27632 dihydrochloride is a selective ROCK inhibitor, with K_i values of 0.14–0.22 μM for ROCK1, 0.3 μM for ROCK2, and significantly higher values for PKA, PKC, and MLCK (25, 26, and >250 μM , respectively). It also inhibits PRK2 with an IC_{50} of 600 nM.
Appearance	Solid
Color	White to off-white
Solubilization	Soluble in DMSO up to 25 mg/mL
Storage & Handling	
Storage	The product can be stored desiccated at room temperature in its original packaging for up to two years. Prepared solutions should be stored at -20 °C and are stable for up to 3 months.
Shipping Information	Room temperature

⚠ For preclinical research and development use only; not intended for therapeutic or other applications.