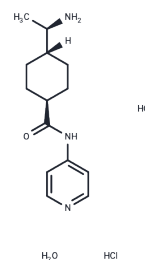


## Y-27632 HCl hydrate

### Chemical Properties

CAS No. :	331752-47-7
Formula:	C <sub>14</sub> H <sub>25</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	338.27
Storage:	Store at low temperature, Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	Y27632 HCl hydrate is an orally effective, ATP-competitive ROCK1/ROCK2 inhibitor (K <sub>i</sub> =220 nM/300 nM) that inhibits caspase-3 and suppresses stem cell apoptosis induced by multiple conditions. It is suitable for studying induced pluripotent stem cell (iPSC) culture.
Targets(IC50)	Apoptosis, Caspase, ROCK

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9562 mL	14.7811 mL	29.5622 mL
5 mM	0.5912 mL	2.9562 mL	5.9124 mL
10 mM	0.2956 mL	1.4781 mL	2.9562 mL
50 mM	0.0591 mL	0.2956 mL	0.5912 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Svoboda KK, et al. ROCK inhibitor (Y27632) increases apoptosis and disrupts the actin cortical mat in embryonic avian corneal epithelium. *Dev Dyn.* 2004;229(3):579-590.

Xue ZW, et al. Rho-associated coiled kinase inhibitor Y-27632 promotes neuronal-like differentiation of adult human adipose tissue-derived stem cells. *Chin Med J (Engl).* 2012 Sep;125(18):3332-5.

Inan S, et al. Antiepileptic effects of two Rho-kinase inhibitors, Y-27632 and fasudil, in mice. *Br J Pharmacol.* 2008 Sep;155(1):44-51.

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