

Certificate of Analysis

Catalog Number	BP10577
Product Name	Y-27632

Physical and Chemical Properties

Synonyms	Y27632
CAS No.	146986-50-7
Chemical Formula	C14H21N3O
Molecular Weight	247.342
Solubility	DMSO: 100 mM
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Y-27632 is a selective ATP-competitive inhibitor of ROCK-I and ROCK-II.
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Targets&IC50	ROCK-I: 220 nM(ki), ROCK-II: 300 nM(ki)
In vitro	Y-27632 is dissolved in water and stored. HeLa cells are plated at a density of 3×104 cells per 3.5-cm dish. The cells are cultured in DMEM containing 10% FBS in the presence of 10 mM Thymidine for 16 h. After the cells are washed with DMEM containing 10% FBS, they are cultured for an additional 8 h, and then 40 ng/mL of Nocodazole is added. After 11.5 h of the Nocodazole treatment, various concentrations of Y-27632 (0-300 μ M), Y-30141, or vehicle is added and the cells are incubated for another 30 min.

Analytical Data

Analytical Data	
HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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