

Data Sheet

Research Use Only

Compound Name	Alternative Names
Y-27632	trans-4-[(1R)-1-Aminoethyl]-N-4- pyridinylcyclohexanecarboxamide dihydrochloride
Catalog Number	_
SM02	
Activity	Effect
Y-27632 dihydrochlorIde is a water-soluble Rho- associated protein Kinase (ROCK) inhibitor.	Y-27632 increases the cloning efficiency of human embryonic stem cells (hESC). Enables the long term expansion of embryonic stem cells (ESC) with single cell passage. ESC treated with Y-27632 in a serum- free medium were consistently differentiated into many cell types, including neurons, muscle cells and hepatocytes.
Purity	CAS
>99%	146986-50-7
Formula	Molecular Weight
$C_{14}H_{21}N_3O.2HCI.H_2O$	338.3
Solubility	Stability
Water	Stable at -20°C. Keep away from direct sunlight.

References

1. Uehata, M., et al. 1997. Nature. 389: 990-994. PMID: 9353125

2. Itoh, K., et al. 1999. Nat. Med. 5: 221-225. PMID: 9930872

3. Davies, S.P., et al. 2000. Biochem. J. 351: 95-105. PMID: 10998351