TransSmall™ Y-27632 (Dihydrochloride)

Cat. No. MS101

Storage: at -20°C in the dark for six months, avoid repeated freeze-thawing

Concentration: 10 mM

Description

Y-27632 is a highly potent, cell-permeable, reversible and selective inhibitor of p160ROCK (Rho-associated, coiled-coil domain-containing protein kinase, ROCK). Y-27632 inhibits the kinase activity of both ROCK1 and ROCK2 with almost equal potency. The inhibition is achieved by competing with ATP for binding to the catalytic site. Y-27632 prevents cell apoptosis, enhances survival and cloning efficiency of human pluripotent stem cells when they are dissociated to single cells, and improves the efficiency of embryoid body formation using the forced aggregation method.

CAS Number: 129830-38-2

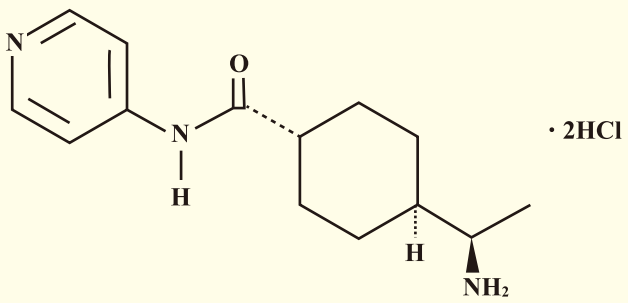
Chemical Formula: $C_{14}H_{21}N_3O \cdot 2HCl$

Molecular Weight: 320.26

Purity: ≥ 98% (HPLC)

Chemical Name: 4-[(1R)-1-aminoethyl]-N-4-pyridinyl-trans-cyclohexanecarboxamide, dihydrochloride

Structure:



Kit Contents

Component	MS101-01	MS101-02
TransSmall™ Y-27632 (Dihydrochloride)	1 mg	5×1 mg

Notes

- The working concentration of *TransSmall*™ Y-27632 (Dihydrochloride) in the hPSC culture medium is 10 μM (1:1000 dilution).
- Thaw *TransSmall*™ Y-27632 (Dihydrochloride) at 2-8°C, spin down at maximum speed for a few seconds, and aliquot it into appropriate working volumes (recommended at 20-50 μl). Avoid repeated freeze-thawing. Aliquots can be stored at -20°C in the dark for up to six months and up to two months at 2-8°C.

FOR RESEARCH USE ONLY