Certification of Analysis

Product Name: Y-27632 dihydrochloride
Catalog No.: 1254
Batch No.: 38

CAS Number: 129830-38-2
IUPAC Name: trans-4-[(1R)-1-Aminoethyl]-N-4-pyridinylcyclohexanecarboxamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{14}H_{21}N_{3}O.2HCl.\frac{1}{3}H_{2}O
   Batch Molecular Weight: 333.77
   Physical Appearance: White solid
   Solubility: phosphate buffered saline to 100 mM
               water to 100 mM
   Storage: Desiccate at RT
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 99.9% purity
   Chiral HPLC: Shows 100% purity
   ^1H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Optical Rotation: [α]D = +3.6 (Concentration = 1, Solvent = Methanol)
   Microanalysis: Carbon Hydrogen Nitrogen
                  Theoretical  50.38  7.4  12.59
                  Found      50.37  7.24  12.33

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956
**Product Information**

**Product Name:** Y-27632 dihydrochloride  
**Catalog No.:** 1254  
**Batch No.:** 38

**Description:**
Selective p160ROCK inhibitor (K values are 0.14, 26, 25 and > 250 μM for p160ROCK, PKC, PKA and MLCK respectively). Also inhibits PRK2 (IC50 = 600 nM). Smooth muscle relaxant and orally active in vivo. Increases survival rate of human embryonic stem (hES) cells and iPSC-BMECs undergoing cryopreservation. Also optimizes naïve human pluripotent stem cell growth and viability following naïve cell derivation from primed ESCs and iPSCs using naïve human stem cell medium (NHSM).

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C14H21N3O.2HCl.¾H2O
- **Batch Molecular Weight:** 333.77
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%

**Storage:** Desiccate at RT

**Solubility & Usage Info:**
- phosphate buffered saline to 100 mM
- water to 100 mM

**Stability and Solubility Advice:**
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

**References:**