Product Name: Y-27632 dihydrochloride
Catalog No.: 1254
Batch No.: 48
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}{2}H_{2}O
   Batch Molecular Weight: 329.27
   Physical Appearance: White solid
   Solubility: water to 100 mM
               DMSO to 100 mM
   Storage: Desiccate at RT
   Batch Molecular Structure:

2. ANALYTICAL DATA

   HPLC: Shows 99.8% purity
   Chiral HPLC: Shows 100.0% purity
   \textsuperscript{1}H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

   \begin{tabular}{lcccc}
   & Carbon & Hydrogen & Nitrogen & Chlorine \\
   Theoretical & 51.07 & 7.35 & 12.76 & 21.53 \\
   Found & 51.09 & 7.28 & 12.44 & 21.3 \\
   \end{tabular}
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IUPAC Name: trans-4-[(1R)-1-Aminoethyl]-N-4-pyridinylcyclohexanecarboxamide dihydrochloride

Description:
Selective ROCK inhibitor (Kₐ values are 0.14-0.22, 0.3, 25, 26 and > 250 μM for ROCK1 (p160 ROCK), ROCK2, PKA, PKC and MLCK respectively). Also inhibits PRK2 (IC₅₀ = 600 nM). Increases survival rate of human embryonic stem (hES) cells and iPSC undergoing cryopreservation. Used in combination with CHIR99021, RepSox, Forskolin, SP 600125, Go 6983 and VPA to reprogram fibroblasts to mature neurons. Also optimizes naive human pluripotent stem cell growth and viability following naive cell derivation from primed ESCs and iPSCs using naive human stem cell medium (NHSM). Used as component of growth media for urothelial organoids. Cell-perm... Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₄H₂₁N₂O₂HCl.½H₂O
Batch Molecular Weight: 329.27
Physical Appearance: White solid
Minimum Purity: ≥98%

Storage: Desiccate at RT

Solubility & Usage Info:
Water to 100 mM
DMSO to 100 mM

When purchased as a 1mg unit, this product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:


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

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