Certificate of Analysis

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Product Name: Rhosin hydrochloride

CAS Number: 1281870-42-5

FOCR

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IUPAC Name: D-Tryptophan (2*E*)-2-(6-quinoxalinylmethylene)hydrazide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

C₂₀H₁₈N₆O.HCl.1½H₂O 421.88 Brown solid water to 20 mM with gentle warming DMSO to 100 mM Store at -20°C





2. ANALYTICAL DATA

HPLC: Chiral HPLC: ¹H NMR: Mass Spectrum: Optical Rotation: Microanalysis: Shows 98.6% purity Shows 100.0% purity Consistent with structure Consistent with structure [α]_D = -35 (Concentration = 1, Solvent = DMSO) Carbon Hydrogen Nitrogen Chlorine Theoretical 56.94 5.26 19.92 8.4 Found 56.05 4.98 19.51 9.94

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

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Catalog No.: 5003

Batch No.: 4

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Product Information

Print Date: Dec 8th 2022

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www.tocris.com

Product Name: Rhosin hydrochloride

CAS Number: 1281870-42-5

IUPAC Name: D-Tryptophan (2*E*)-2-(6-quinoxalinylmethylene)hydrazide hydrochloride

Description:

Rhosin hydrochloride is a Rho GTPase inhibitor (K_d = 354 nM). Inhibits binding of RhoA to guanine nucleotide exchange factors (GEFs) including LARG, DBL, LBC, p115 RhoGEF and PDZ RhoGEF. Has no effect on the binding of Rac1 or Cdc42 to their respective GEFs. Suppresses RhoA/C-mediated breast cancer cell migration and invasion in vitro. Also induces neurite outgrowth in synergy with NGF.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₀H₁₈N₆O.HCI.1½H₂O Batch Molecular Weight: 421.88 Physical Appearance: Brown solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Catalog No.: 5003

Solubility & Usage Info:

water to 20 mM with gentle warming DMSO 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).

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:

Shang *et al* (2013) Small-molecule inhibitors targeting G-protein-coupled Rho guanine nucleotide exchange factors. Proc.Natl.Acad.Sci.U.S.A. **110** 3155. PMID: 23382194.

Shang et al (2012) Rational design of small molecule inhibitors targeting RhoA subfamily Rho GTPases. Chem.Biol. 19 699. PMID: 22726684.

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