Certificate of Analysis

www.tocris.com

Print Date: Apr 25th 2022

Product Name: Linsitinib

CAS Number: 867160-71-2

IUPAC Name: cis-3-[8-Amino-1-(2-phenyl-7-quinolinyl)imidazo[1,5-a]pyrazin-3-yl]-1-methylcyclobutanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight:

Physical Appearance:

Solubility:

Storage:

Batch Molecular Structure:

C26H23N5O.34H2O 435 Pale yellow solid DMSO to 100 mM Store at -20°C

 NH_2

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: **Microanalysis:**

Shows 99.3% purity Consistent with structure Consistent with structure

Carbon Hydrogen Nitrogen

Theoretical	71.79	5.68	16.1
Found	71.38	5.71	16.03

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

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Catalog No.: 7652 Batch No.: 1

TOCRIS a biotechne brand

Product Information

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Batch No.: 1

Product Name: Linsitinib

CAS Number: 867160-71-2

IUPAC Name:

cis-3-[8-Amino-1-(2-phenyl-7-quinolinyl)imidazo[1,5-a]pyrazin-3-yl]-1-methylcyclobutanol

Description:

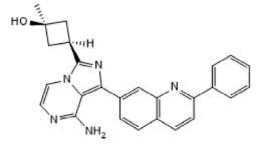
Linsitinib is a potent and selective dual inhibitor of the IGF-1 receptor (IC_{50} = 35 nM) and insulin receptor (IC_{50} = 75 nM); it inhibits ligand-dependent auto-phosphorylation of both receptor tyrosine kinases and prevents ligand-induced activation of downstream pathways including pAKT, pERK1/2 and p-p70S6K. The compound is selective for IGF-1R, IR and IRR in a panel of 88 kinases. Lisintinib inhibits proliferation in a variety of tumor cell lines and shows robust in vivo antitumor efficacy in an IGF-1R-driven LSN xenograft model. Orally bioavailable.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{26}H_{23}N_5O.^3/_4H_2O$ Batch Molecular Weight: 435 Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info: 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).

Catalog No.: 7652

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:

Mulvihill *et al* (2009) Discovery of OSI-906: a selective and orally efficacious dual inhibitor of the IGF-1 receptor and insulin receptor. Future Med.Chem. **1** 1153. PMID: 21425998.

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