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Certificate of Analysis

www.tocris.com

Product Name: Ki 20227

Catalog No.: 4481 Batch No.: 6

CAS Number: IUPAC Name:

Storage:

623142-96-1

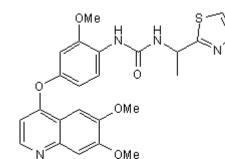
N-[4-[(6,7-Dimethoxy-4-quinolinyl)oxy]-2-methoxyphenyl]-N'-[1-(2-thiazolyl)ethyl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Structure:

 $C_{24}H_{24}N_4O_5S$ 480.54 Pale yellow solid DMSO to 100 mM ethanol to 10 mM with gentle warming Store at +4°C



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.36 (Dichloromethane:Methanol [9:1]) Shows 99.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 59.99 5.03 11.66

Found	59.92	5.05	11.64
round	00.02	0.00	11.04

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

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OCRIS a biotechne brand

Print Date: Feb 17th 2016

www.tocris.com

Batch No.: 6

Product Name: Ki 20227

CAS Number: **IUPAC Name:**

N-[4-[(6,7-Dimethoxy-4-quinolinyl)oxy]-2-methoxyphenyl]-N'-[1-(2-thiazolyl)ethyl]urea

Description:

Inhibitor of c-Fms tyrosine kinase (M-CSFR, CSF1R) (IC $_{\rm 50}$ values are 2, 12, 217 and 451 nM for c-Fms, VEGFR-2, PDGFRβ and c-Kit respectively). Does not inhibit Flt3, EGFR or c-Src. Suppresses osteoclast differentiation and osteolysis in a rat bone metastasis model.

623142-96-1

Physical and Chemical Properties:

Batch Molecular Formula: C24H24N4O5S Batch Molecular Weight: 480.54 Physical Appearance: Pale yellow solid

Minimum Purity: >97%

Batch Molecular Structure:

OMe n OMe

Storage: Store at +4°C

Solubility & Usage Info: DMSO to 100 mM

ethanol to 10 mM with gentle warming

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.: 4481

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:

Ohno et al (2006) A c-fms tyrosine kinase inhibitor, Ki20227, suppresses osteoclast differentiation and osteolytic bone destruction in a bone metastasis model. Mol.Cancer Ther. 5 2634. PMID: 17121910.

Ohno et al (2007) The orally-active and selective c-Fms tyrosine kinase inhibitor Ki20227 inhibits disease progression in a collageninduced arthritis mouse model. Eur.J.Immunol. 38 283. PMID: 18085662.

Kubota et al (2009) M-CSF inhibition selectively targets pathological angiogenesis and lymphangiogenesis. J.Exp.Med. 206 1089. PMID: 19398755.

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