TOCRIS b i o s c i e n c e

Certificate of Analysis

Print Date: Mar 8th 2014

www.tocris.com

Product Name: iMDK

Catalog No.: 5126 Batch No.: 1

CAS Number: 881970-80-5

IUPAC Name: 3-[2-[(4-Fluorophenyl)methyl]imidazo[2,1-b]thiazol-6-yl]-2H-1-benzopyran-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{21}H_{13}FN_2O_2S._{4}H_2O$ 380.9 Beige solid DMSO to 5 mM Store at +4°C

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 99.5% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

	Carbon n	yulogen i	niiogen
Theoretical	66.22	3.57	7.35
Found	66.24	3.56	7.41

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

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Product Information

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Description:

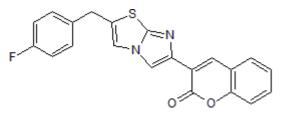
Suppresses endogenous midkine (MDK) expression in H441 lung adenocarcinoma cells. Suppresses tumor growth and induces cell death by inhibiting the PI 3-kinase pathway and inducing apoptosis in a mouse model derived from H441 lung adenocarcinoma cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₁₃FN₂O₂S.¼H₂O Batch Molecular Weight: 380.9 Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

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

Solubility & Usage Info:

DMSO to 5 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:

Hao et al (2013) Inhibition of the growth factor MDK/Midkine by a novel small molecule compound to treat non-small cell lung cancer. PLoS ONE 8 (8) e71093. PMID: 23976985.

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