TOCRIS
a bio-techne brand

Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **5'-Fluoroindirubinoxime** **Catalog No.: 4033** **Batch No.: 1**

CAS Number: 861214-33-7

IUPAC Name: 5'-Fluoro-1*H*,1'*H*-[2,3']biindolylidene-3,2'dione 3-oxime

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{10}FN_3O_2 \cdot ¼H_2O$

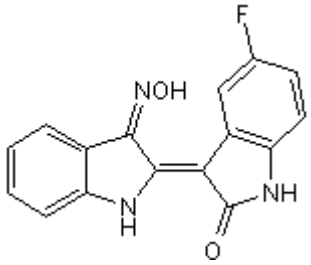
Batch Molecular Weight: 299.77

Physical Appearance: Red solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.11	3.53	14.02
Found	64.03	3.53	13.94

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Product Information

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IUPAC Name: 5'-Fluoro-1*H*,1'*H*-[2,3']biindolylidene-3,2'dione 3-oxime

Description:

Inhibitor of FMS-like receptor tyrosine kinase-3 (FLT3) (IC_{50} = 15 nM). Displays selectivity for FLT3 against 6 other kinases including EGFR. Displays antiproliferative activity against the MV4;11 cell line (expressing constitutively active FLT3) and a number of cancer cell lines, including SNU-638 (stomach carcinoma) and HT-1080 (fibrosarcoma).

Physical and Chemical Properties:

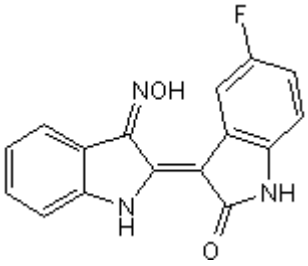
Batch Molecular Formula: $C_{16}H_{10}FN_3O_2.¼H_2O$

Batch Molecular Weight: 299.77

Physical Appearance: Red solid

Minimum Purity: >99%

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 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:

Kim *et al* (2007) Antitumor activity of novel indirubin derivatives in rat tumor model. Clin.Cancer Res. ***13*** 253. PMID: 17200363.

Krivogorsky *et al* (2008) Inhibition of *Toxoplasma gondii* by indirubin and tryptanthrin analogs. Antimicrob.Agents Chemother. ***52*** 4466. PMID: 18824607.

Choi *et al* (2010) Indiribuin derivatives as potent FLT3 inhibitors with anti-proliferative activity of acute myeloid leukemic cells. Bioorg.Med.Chem.Lett. ***20*** 2033. PMID: 20153646.

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