TOCRIS
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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **SU 4312** **Catalog No.: 1459** **Batch No.: 1**

CAS Number: 5812-07-7

IUPAC Name: 3-[[4-(dimethylamino)phenyl]methylene]-1,3-dihydro-2*H*-indol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{16}N_2O$

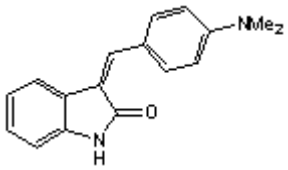
Batch Molecular Weight: 264.33

Physical Appearance: Dark red solid

Solubility: DMSO to 100 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Dichloromethane:Methanol:Ammonia soln. [97:1:2])

Melting Point: Between 233 - 234°C

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	77.25	6.1	10.6
Found	77.18	6.06	10.54

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Description:

Potent and selective inhibitor of VEGFR and PDGFR tyrosine kinases (IC_{50} values are 0.8 and 19.4 μM respectively). Selective over EGFR and c-Src tyrosine kinases.

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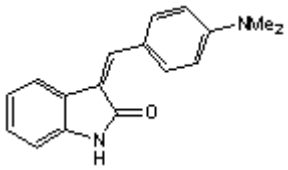

Storage: Desiccate at -20°C

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

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:

Sun *et al* (1998) Synthesis and biological evaluations of 3-substituted indol-2-ones: a novel class of tyrosine kinase inhibitors that exhibit selectivity toward particular receptor tyrosine kinases. J.Med.Chem. ***41*** 2588. PMID: 9651163.

Zaman *et al* (1998) Tyrosine kinase activity of purified recombinant cytoplasmic domain of platelet-derived growth factor β-receptor (β-PDGFR) and discovery of a novel inhibitor of receptor tyrosine kinases. Biochem.Pharmacol. ***57*** 57. PMID: 9920285.

Kendall *et al* (1999) Vascular endothelial growth factor receptor KDR tyrosine kinase activity is increased by autophosphorylation of two activation loop tyrosine residues. J.Biol.Chem. ***274*** 6453. PMID: 10037737.

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