

Product Name: SU 5402

Catalog No.: 3300

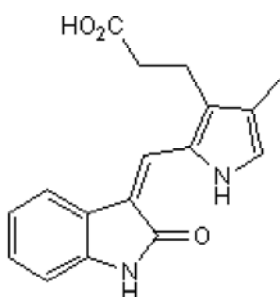
Batch No.: 10

CAS Number: 215543-92-3

IUPAC Name: 2-[(1,2-Dihydro-2-oxo-3*H*-indol-3-ylidene)methyl]-4-methyl-1*H*-pyrrole-3-propanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₆N₂O₃
Batch Molecular Weight: 296.32
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.91	5.44	9.45
Found	68.44	5.49	9.37

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

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IUPAC Name: 2-[(1,2-Dihydro-2-oxo-3H-indol-3-ylidene)methyl]-4-methyl-1H-pyrrole-3-propanoic acid

Description:

Potent and selective vascular endothelial growth factor receptor (VEGFR) and fibroblast growth factor receptor (FGFR) inhibitor (IC₅₀ values are 0.02, 0.03, 0.51 and > 100 μM at VEGFR2, FGFR1, PDGFRβ and EGFR respectively). Inhibits embryonic left-right determination and exhibits potent anticancer activity in vitro and in vivo. Also attenuates integrin β4-induced differentiation of neural stem cells. Supports mESC self-renewal.

Physical and Chemical Properties:

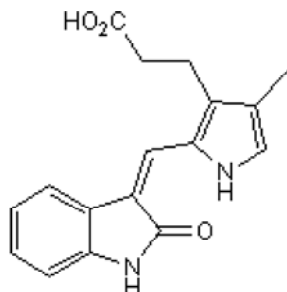
Batch Molecular Formula: C₁₇H₁₆N₂O₃

Batch Molecular Weight: 296.32

Physical Appearance: Orange solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store 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

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved

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:

Su et al (2009) Neural stem cell differentiation is mediated by integrin beta4 *in vitro*. *Int.J.Biochem.Cell Biol.* **41** 916. PMID: 18834954.

Buehr et al (2008) Capture of authentic embryonic stem cells from rat blastocysts. *Cell* **135** 1287. PMID: 19109897.

Tanaka et al (2005) FGF-induced vesicular release of sonic hedgehog and retinoic acid in leftward nodal flow is critical for left-right determination. *Nature* **435** 172. PMID: 15889083.

Paterson et al (2004) Preclinical studies of fibroblast growth factor receptor 3 as a therapeutic target in multiple myeloma. *Br.J.Haematol.* **124** 595. PMID: 14871245.

Sun et al (1999) Design, synthesis and evaluations of substituted 3-[(3- or 4-carboxyethylpyrrol-2-yl)methylidene]indolin-2-ones as inhibitors of VEGF, FGF and PDGF receptor tyrosine kinases. *J.Med.Chem.* **42** 5120. PMID: 10602697.

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