

Product Name: SU 5402

Catalog No.: 3300

Batch No.: 12

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: C₁₇H₁₆N₂O₃·¼H₂O

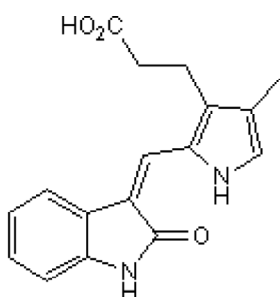
Batch Molecular Weight: 300.82

Physical Appearance: Orange solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.87	5.53	9.31
Found	68.05	5.44	9.24

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

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Description:

SU 5402 is a 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. For more information about how SU 5402 may be used, see our protocol: Accelerated Induction of Cortical Neurons from hiPSCs Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

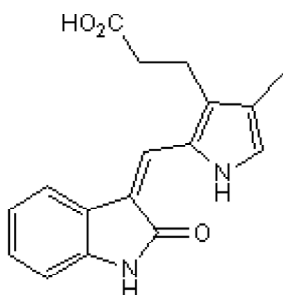
Batch Molecular Formula: C₁₇H₁₆N₂O₃·¼H₂O

Batch Molecular Weight: 300.82

Physical Appearance: Orange solid

Minimum Purity: ≥95%

Batch Molecular Structure:



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.

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 in lyophilized form. It may appear as a solid, gel or film and 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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