

Product Name: SU 5416

Catalog No.: 3037

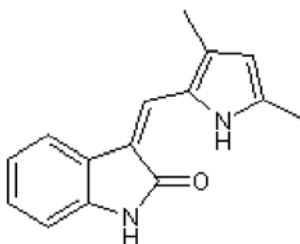
Batch No.: 7

CAS Number: 204005-46-9

IUPAC Name: 3-[(3,5-Dimethyl-1*H*-pyrrol-2-yl)methylene]-1,3-dihydro-2*H*-indol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₄N₂O
Batch Molecular Weight: 238.28
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM with gentle warming
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.6 (Dichloromethane:Methanol [97:3])
HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	75.61	5.92	11.76
Found	75.48	5.9	11.77

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

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Description:

SU 5416, an angiogenesis inhibitor, is a potent vascular endothelial growth factor receptor tyrosine kinase 1/2 inhibitor (IC₅₀ = 40 nM). SU 5416 also potently inhibits c-Kit, FLT3 and RET tyrosine kinases (IC₅₀ values are 30 nM, 160 nM and 170 nM, respectively). SU 5416 shows inhibition of tumour growth and vascularization and can be used to generate an animal model of pulmonary arterial hypertension.

Physical and Chemical Properties:

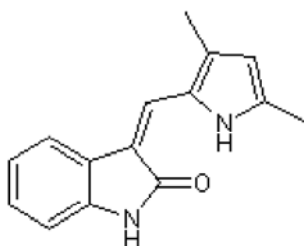
Batch Molecular Formula: C₁₅H₁₄N₂O

Batch Molecular Weight: 238.28

Physical Appearance: Orange solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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:

Ciucian *et al* (2011) A novel murine model of severe pulmonary arterial hypertension. *Am.J.Respir.Crit. Care Med.* **184** 1171. PMID: 21868504.

Mogni *et al* (2006) Inhibition of RET tyrosine kinase by SU5416. *J.Mol.Endocrinol.* **37** 199. PMID: 17032739.

Smolich *et al* (2001) The antiangiogenic protein kinase inhibitors SU5416 and SU6668 inhibit the SCF receptor (c-Kit) in a human myeloid leukemia cell line and in acute myeloid leukemia blasts. *Blood* **97** 1413. PMID: 11222388.

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