Certificate of Analysis

www.tocris.com

Product Name: **SU 16f** **Catalog No.: 3304** **Batch No.: 1**

CAS Number: 251356-45-3

IUPAC Name: 5-[1,2-Dihydro-2-oxo-6-phenyl-3*H*-indol-3-ylidene)methyl]-2,4-dimethyl-1*H*-pyrrole-3-propanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{22}N_2O_3$

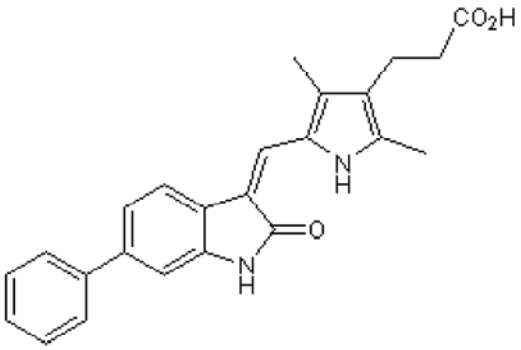
Batch Molecular Weight: 386.44

Physical Appearance: red-brown solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Petroleum ether:Ethyl acetate:Acetic acid [5:5:1])

HPLC: Shows 98.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.59	5.74	7.25
Found	74.25	5.76	7.26

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Product Information

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Description:

SU 16f is a potent and selective platelet-derived growth factor receptor β (PDGFRβ) inhibitor (IC_{50} = 10 nM) that displays > 14-fold, > 229-fold and > 10000-fold selectivity over VEGFR2, FGFR1 and EGFR respectively. Inhibits proliferation of HUVEC and NIH3T3 cells in vitro (IC_{50} = 0.11 µM). Promotes conversion of fibroblasts to cardiomyocytes as part of 9C cocktail. For more information about how SU 16f may be used, see our protocol: Converting Fibroblasts into Cardiomyocytes (9C Cocktail) Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

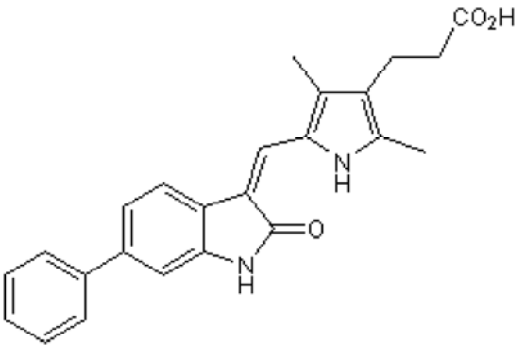
Batch Molecular Formula: $C_{24}H_{22}N_2O_3$

Batch Molecular Weight: 386.44

Physical Appearance: red-brown solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

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:

Cao *et al* (2016) Conversion of human fibroblasts into functional cardiomyocytes by small molecules. Science ***352*** 1216. PMID: 27127239.

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

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