

**Product Name:** Toceranib

**Catalog No.:** 3909

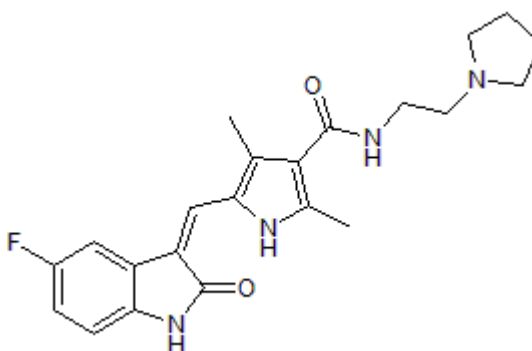
**Batch No.:** 1

**CAS Number:** 356068-94-5

**IUPAC Name:** 5-[(Z)-(5-Fluoro-1,2-dihydro-2-oxo-3H-indol-3-ylidene)methyl]-2,4-dimethyl-N-[2-(1-pyrrolidinyl)ethyl]-1H-pyrrole-3-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>22</sub> H <sub>25</sub> FN <sub>4</sub> O <sub>2</sub> ·¼H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	400.96
<b>Physical Appearance:</b>	Orange solid
<b>Solubility:</b>	DMSO to 10 mM with gentle warming
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 98.1% purity			
<b><sup>1</sup>H NMR:</b>	Consistent with structure			
<b>Mass Spectrum:</b>	Consistent with structure			
<b>Microanalysis:</b>	Carbon Hydrogen Nitrogen			
	Theoretical	65.9	6.41	13.97
	Found	65.64	6.32	13.99

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

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**Description:**

Potent ATP-competitive PDGFR and VEGFR inhibitor ( $K_i = 5$  and  $6$  nM, respectively); inhibits phosphorylation of c-kit and suppresses the growth of mast cell lines expressing mutant Kit, inducing cell cycle arrest and apoptosis. Also inhibits FGFR1 ( $K_i = 0.5$   $\mu$ M). Effective in vivo.

**Physical and Chemical Properties:**

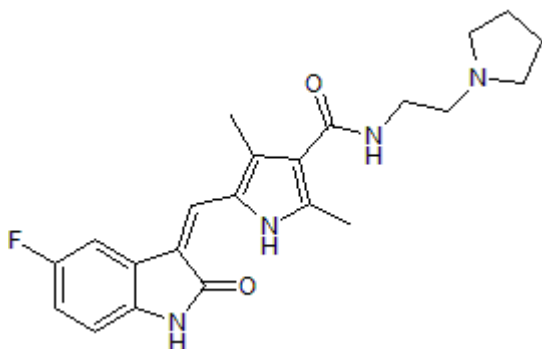
Batch Molecular Formula:  $C_{22}H_{25}FN_4O_2 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 400.96

Physical Appearance: Orange solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}C$

**Solubility & Usage Info:**

DMSO 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  $45-60^{\circ}C$  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  $-20^{\circ}C$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Liao et al** (2002) Inhibition of constitutively active forms of mutant kit by multitargeted indolinone tyrosine kinase inhibitors. *Blood*. **100** 585. PMID: 12091352.

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