1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{24}\text{H}_{22}\text{N}_{2}\text{O}_{3} \)

Batch Molecular Weight: 386.44

Physical Appearance: red-brown solid

Solubility: DMSO to 100 mM

Storage: Store at RT

2. ANALYTICAL DATA

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

HPLC: Shows >98.6% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>74.59</td>
<td>74.25</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.74</td>
<td>5.76</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>7.25</td>
<td>7.26</td>
</tr>
</tbody>
</table>

Certificate of Analysis

www.tocris.com
**Product Information**

**Product Name:** SU 16f

**CAS Number:** 251356-45-3

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

**Description:**
Potent and selective platelet-derived growth factor receptor β (PDGFRβ) inhibitor (IC₅₀ = 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 (IC₅₀ = 0.11 μM).

**Physical and Chemical Properties:**

- **Batch Molecular Formula:** C₂₄H₂₂N₂O₃
- **Batch Molecular Weight:** 386.44
- **Physical Appearance:** red-brown solid
- **Minimum Purity:** >98%

**Batch Molecular Structure:**

![Molecular Structure](image)

**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:**