

**Product Name:** GNF 5837

**Catalog No.:** 4559

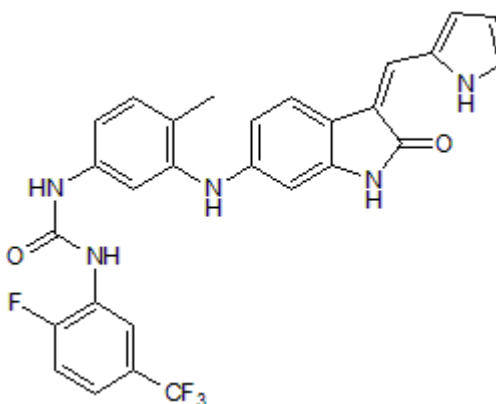
**Batch No.:** 2

CAS Number: 1033769-28-6

IUPAC Name: *N*-[3-[[2,3-Dihydro-2-oxo-3-(1*H*-pyrrol-2-ylmethylene)-1*H*-indol-6-yl]amino]-4-methylphenyl]-*N*-[2-fluoro-5-(trifluoromethyl)phenyl]urea

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>28</sub>H<sub>21</sub>F<sub>4</sub>N<sub>5</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 535.49  
**Physical Appearance:** Orange solid  
**Solubility:** DMSO to 100 mM  
ethanol to 10 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.7 (Ethyl acetate)  
**HPLC:** Shows 98.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.8	3.95	13.08
Found	62.79	3.99	13.01

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**Description:**

Potent pan-Trk inhibitor. Displays antiproliferative effects in cellular Ba/F3 assays (IC<sub>50</sub> values are 7, 9 and 11 nM for cells containing the fusion proteins Tel-TrkC, Tel-TrkB and Tel-TrkA, respectively). Exhibits selectivity for Trk receptors over a range of kinases, with some activity at PDGFR and c-Kit (IC<sub>50</sub> values are 0.87 and 0.91 μM respectively). Orally bioavailable.

**Physical and Chemical Properties:**

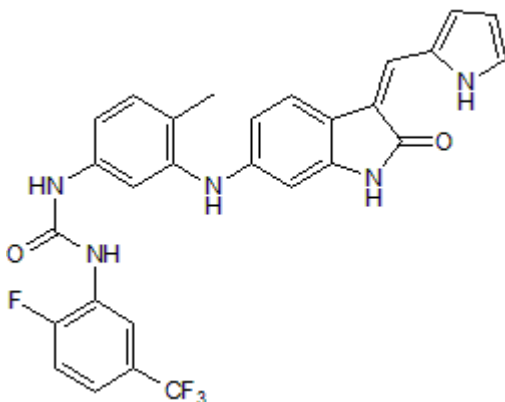
Batch Molecular Formula: C<sub>28</sub>H<sub>21</sub>F<sub>4</sub>N<sub>5</sub>O<sub>2</sub>

Batch Molecular Weight: 535.49

Physical Appearance: Orange solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 10 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:**

**Albaugh et al** (2012) Discovery of GNF-5837, a selective TRK inhibitor with efficacy in rodent cancer tumor models. ACS Med.Chem.Lett. **3** 140.

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