

**Product Name:** GW 441756

**Catalog No.:** 2238

**Batch No.:** 1

CAS Number: 504433-23-2

IUPAC Name: 1,3-Dihydro-3-[(1-methyl-1*H*-indol-3-yl)methylene]-2*H*-pyrrolo[3,2-*b*]pyridin-2-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>13</sub>N<sub>3</sub>O.H<sub>2</sub>O

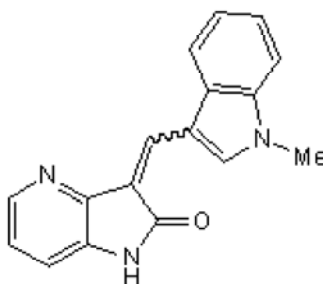
**Batch Molecular Weight:** 293.33

**Physical Appearance:** Red solid

**Solubility:** DMSO to 15 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.5 (Dichloromethane:Methanol [9:1])

**Melting Point:** Between 264 - 267°C(dec)

**HPLC:** Shows 99.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	69.61	5.15	14.33
Found	69.4	5.11	14.17

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956

**Product Name:** GW 441756

**Catalog No.:** 2238

**Batch No.:** 1

CAS Number: 504433-23-2

IUPAC Name: 1,3-Dihydro-3-[(1-methyl-1*H*-indol-3-yl)methylene]-2*H*-pyrrolo[3,2-*b*]pyridin-2-one

**Description:**

GW 441756 is a potent, selective inhibitor of the NGF receptor tyrosine kinase A (TrkA) ( $IC_{50} = 2$  nM). Displays > 100-fold selectivity over a range of other kinases.

**Physical and Chemical Properties:**

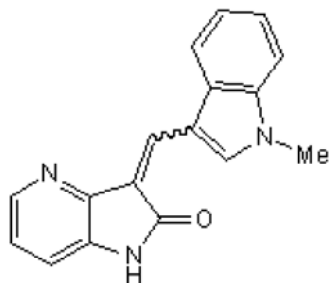
Batch Molecular Formula:  $C_{17}H_{13}N_3O \cdot H_2O$

Batch Molecular Weight: 293.33

Physical Appearance: Red solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**References:**

**Wood et al** (2004) Discovery and in vitro evaluation of potent TrkA kinase inhibitors: oxindole and aza-oxindoles. *Bioorg.Med.Chem.Lett.* **14** 953. PMID: 15013000.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 15 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.

**Licensing Information:**

Sold for research purposes under agreement from GlaxoSmithKline.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956