

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: C₁₇H₁₃N₃O.H₂O

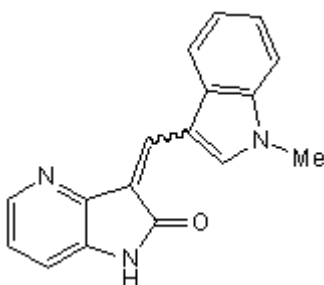
Batch Molecular Weight: 293.33

Physical Appearance: Red solid

Solubility: DMSO to 15 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol [9:1])

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

HPLC: Shows 99.6% purity

¹H 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

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Description:

Potent, selective inhibitor of the NGF receptor tyrosine kinase A (TrkA) (IC₅₀ = 2 nM). Displays > 100-fold selectivity over a range of other kinases.

Physical and Chemical Properties:

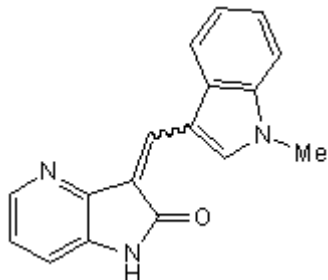
Batch Molecular Formula: C₁₇H₁₃N₃O.H₂O

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.

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