

Product Name: PI 3065

Catalog No.: 5919

Batch No.: 3

CAS Number: 955977-50-1

IUPAC Name: 6-[[4-(Cyclopropylmethyl)-1-piperazinyl]methyl]-2-(5-fluoro-1*H*-indol-4-yl)-4-(4-morpholinyl)-thieno[3,2-*d*]pyrimidine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₁FN₆OS.¼H₂O

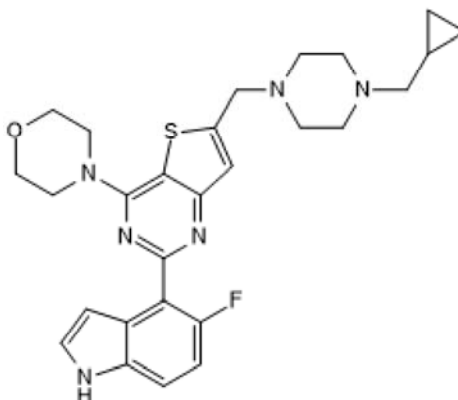
Batch Molecular Weight: 511.14

Physical Appearance: White solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.44	6.21	16.44
Found	63.43	6.02	16.38

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

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Description:

Potent and selective PI 3-kinase p110 δ inhibitor (IC₅₀ = 5 nM; K_i = 1.5 nM). Exhibits >100-fold selectivity over p100 α , p100 γ and p100 β isoforms (IC₅₀ values are 600, 910, >10,000 nM, respectively). Attenuates 4T1 tumor growth and metastasis in vivo.

Physical and Chemical Properties:

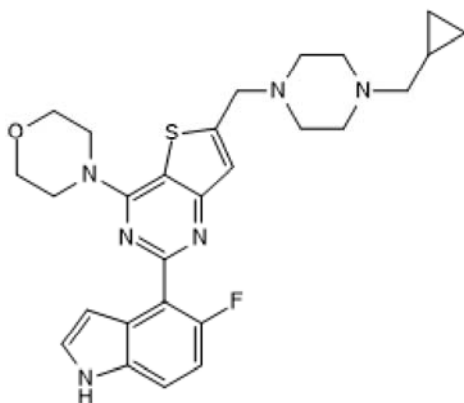
Batch Molecular Formula: C₂₇H₃₁FN₆OS.¼H₂O

Batch Molecular Weight: 511.14

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 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:

Ali *et al* (2014) Inactivation of PI(3)K p110 δ breaks regulatory T-cell-mediated immune tolerance to cancer. *Nature* **510** 407. PMID: 24919154.

Porta *et al* (2014) Targeting PI3K/Akt/mTOR signaling in cancer. *Front.Oncol.* **4** 64. PMID: 24782981.

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