

Product Name: PF 04691502

Catalog No.: 4820

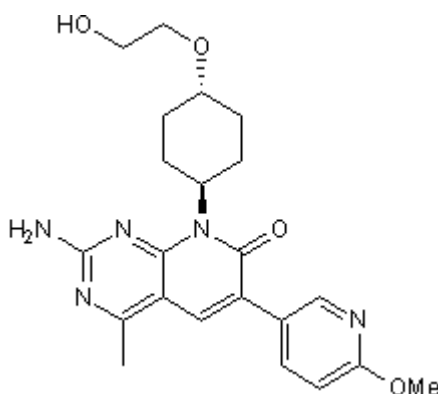
Batch No.: 1

CAS Number: 1013101-36-4

IUPAC Name: 2-Amino-8-[*trans*-4-(2-hydroxyethoxy)cyclohexyl]-6-(6-methoxy-3-pyridinyl)-4-methyl-pyrido[2,3-*d*]pyrimidin-7(8*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₇N₅O₄
Batch Molecular Weight: 425.48
Physical Appearance: Green solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.1	6.4	16.46
Found	61.85	6.3	16.27

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

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Description:

Potent and selective dual ATP-competitive PI 3-K/mTOR inhibitor (K_i values are 1.6, 1.8, 1.9, 2.1 and 16 nM for human PI 3-K δ , α , γ , β , and mTOR, respectively). Displays no significant inhibitory activity at more than 80 protein kinases (concentration $\geq 10 \mu\text{M}$) including hVps34, PI 3-K downstream kinases, and MAPK family members. Orally available. Induces robust cell cycle arrest at the G₁ phase in U87MG cancer cells and antitumor activity in SKOV3 ovarian cancer xenograft models.

Physical and Chemical Properties:

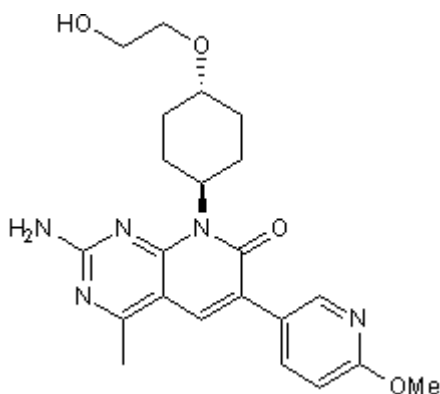
Batch Molecular Formula: C₂₂H₂₇N₅O₄

Batch Molecular Weight: 425.48

Physical Appearance: Green solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

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:

Yuan *et al* (2011) PF-04691502, a potent and selective oral inhibitor of PI3K and mTOR kinases with antitumor activity. *Mol.Cancer Ther.* **10** 2189. PMID: 21750219.

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