

Product Name: PIK 93

Catalog No.: 6440

Batch No.: 1

CAS Number: 593960-11-3

IUPAC Name: *N*-[5-[4-Chloro-3-[[2-(2-hydroxyethyl)amino]sulfonyl]phenyl]-4-methyl-2-thiazolyl]acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₆ClN₃O₄S₂·½H₂O

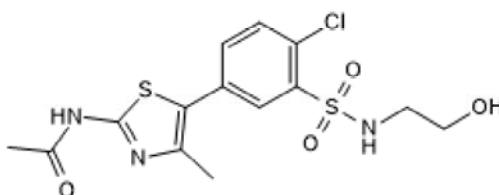
Batch Molecular Weight: 394.38

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.64	4.22	10.65
Found	42.53	4.08	10.62

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

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Description:

Potent PI 3-Ky, PI 3-K α and PI 4-KIII β inhibitor (IC₅₀ values are 16, 39 and 19 nM, respectively). Rescues PI 3K inhibition of growth of *S. cerevisiae* in a reverse halo assay.

Physical and Chemical Properties:

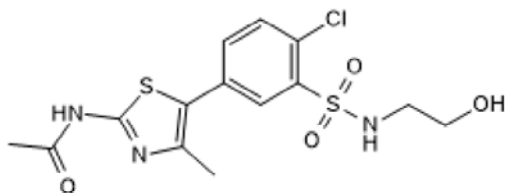
Batch Molecular Formula: C₁₄H₁₆ClN₃O₄S₂·1/4H₂O

Batch Molecular Weight: 394.38

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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:

Burke et al (2014) Structures of PI4KIII β complexes show simultaneous recruitment of Rab1 1 and its effectors. *Science* **344** 1035. PMID: 24876499.

Zunder et al (2008) Discovery of drug-resistant and drug-sensitizing mutations in the oncogenic PI3K isoform p110 α . *Cancer Cell* **14** 180. PMID: 18691552.

Knight et al (2006) A pharmacological map of the PI3-K family defines a role for p110 α in insulin signaling. *Cell* **125** 733. PMID: 16647110.

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