

Product Name: Fmk

Catalog No.: 4690

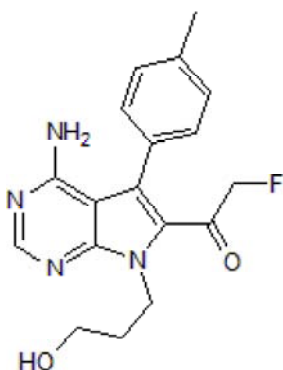
Batch No.: 1

CAS Number: 821794-92-7

IUPAC Name: 1-[4-Amino-7-(3-hydroxypropyl)-5-(4-methylphenyl)-7H-pyrrolo[2,3-d]pyrimidin-6-yl]-2-fluoroethanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₉FN₄O₂
Batch Molecular Weight: 342.37
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.15	5.59	16.36
Found	62.96	5.37	16.32

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

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Description:

Potent irreversible RSK1/2 inhibitor (IC₅₀ = 15 nM). Inactivates the C-terminal auto-kinase domain activity. Suppresses RSK2 kinase activity in RSK2-expressing HNSCC cell lines. Reduces HNSCC cell invasive ability. Displays no effect on EGF-stimulated phosphorylation of ERK1 or ERK2.

Physical and Chemical Properties:

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Batch Molecular Weight: 342.37

Physical Appearance: Yellow solid

Minimum Purity: >97%

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:

Kang et al (2010) p90 ribosomal S6 kinase 2 promotes invasion and metastasis of human head and neck squamous cell carcinoma cells. *J.Clin.Invest.* **120** 1165. PMID: 20234090.

Cohen et al (2007) A clickable inhibitor reveals context-dependent autoactivation of p90 RSK. *Nat.Chem.Biol.* **3** 156. PMID: 17259979.

Cohen et al (2005) Structural bioinformatics-based design of selective, irreversible kinase inhibitors. *Science* **308** 1318. PMID: 15919995.

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