

Product Name: KU 0063794

Catalog No.: 3725

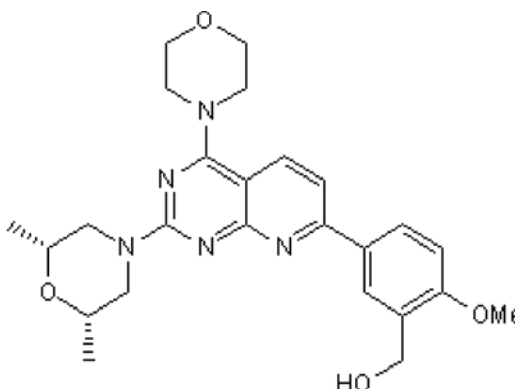
Batch No.: 5

CAS Number: 938440-64-3

IUPAC Name: *rel*-5-[2-[(2*R*,6*S*)-2,6-dimethyl-4-morpholinyl]-4-(4-morpholinyl)pyrido[2,3-*d*]pyrimidin-7-yl]-2-methoxybenzenemethanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₅ H ₃₁ N ₅ O ₄
Batch Molecular Weight:	465.54
Physical Appearance:	Off White solid
Solubility:	DMSO to 10 mM
Storage:	Store at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.6% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	64.5	6.71	15.04
Found	64.51	6.76	14.96

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

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Description:

Selective inhibitor of mammalian target of rapamycin (mTOR) (IC₅₀ ~10 nM for mTORC1 and mTORC2). Displays no activity at PI 3-kinase or 76 other kinases tested. Inhibits activation and hydrophobic motif phosphorylation of Akt, S6K and SGK, but not RSK. Suppresses cell growth and induces G₁ cell cycle arrest in vitro.

Physical and Chemical Properties:

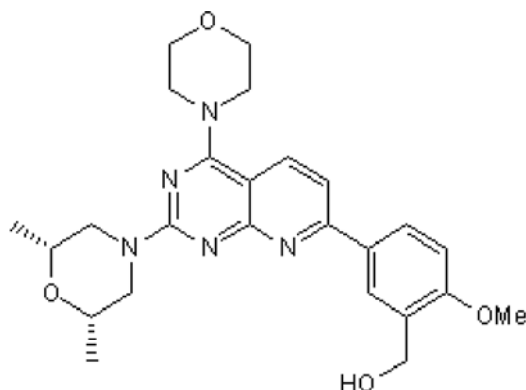
Batch Molecular Formula: C₂₅H₃₁N₅O₄

Batch Molecular Weight: 465.54

Physical Appearance: Off White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 10 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:

Garcia-Martinez et al (2009) Ku-0063794 is a specific inhibitor of the mammalian target of rapamycin (mTOR). *Biochem.J.* **421** 29. PMID: 19402821.

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