

Product Name: WH-4-023

Catalog No.: 5413

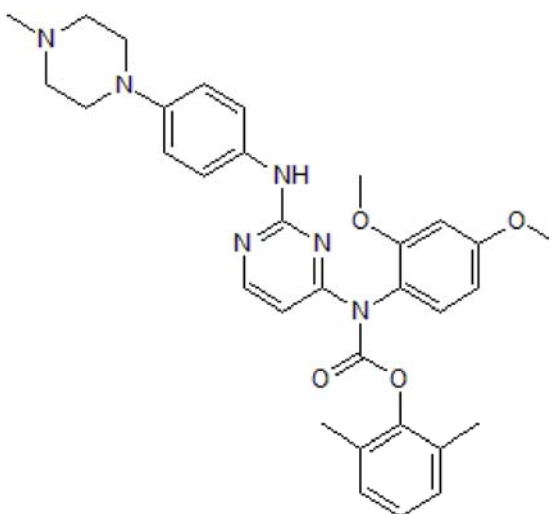
Batch No.: 1

CAS Number: 837422-57-8

IUPAC Name: 2,6-Dimethylphenyl *N*-(2,4-dimethoxyphenyl)-*N*-[2-[[4-(4-methyl-1-piperazinyl)phenyl]amino]-4-pyrimidinyl] carbamate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₂ H ₃₆ N ₆ O ₄
Batch Molecular Weight:	568.67
Physical Appearance:	Off White solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.0% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	67.59	6.38	14.78
Found	67.47	6.45	14.63

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

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Description:

Potent and selective Lck and Src inhibitor (IC₅₀ values are 2 and 6 nM respectively). Exhibits >300-fold selectivity against p38α and KDR. Also potently inhibits SIK (IC₅₀ values are 10, 22 and 60 nM for SIK 1, 2 and 3 respectively) and displays selectivity over a range of closely related kinases. Supports self-renewal of naive hESCs in combination with PD 0325901, CHIR 99021 and SB 590885.

Physical and Chemical Properties:

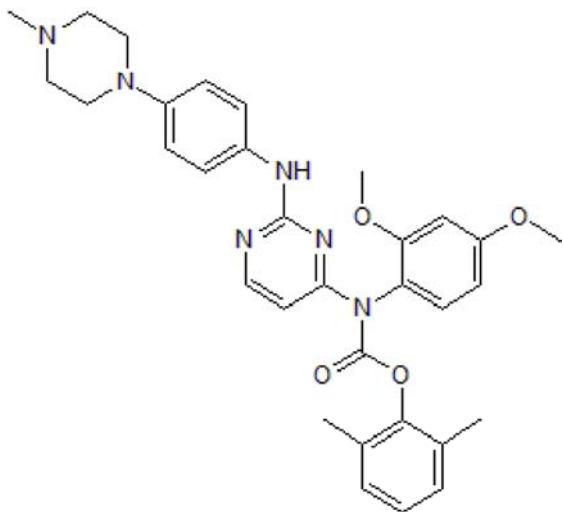
Batch Molecular Formula: C₃₂H₃₆N₆O₄

Batch Molecular Weight: 568.67

Physical Appearance: Off White 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:

Theunissen et al (2014) Systematic identification of culture conditions for induction and maintenance of naive human pluripotency. *Cell Stem Cell* **15** 471. PMID: 25090446.

Clark et al (2012) Phosphorylation of CRT3 by the salt-inducible kinases controls the interconversion of classically activated and regulatory macrophages. *Proc.Natl.Acad.Sci.U.S.A.* **109** 16986. PMID: 23033494.

Martin et al (2006) Novel 2-aminopyrimidine carbamates as potent and orally active inhibitors of Lck: synthesis, SAR, and in vivo anti-inflammatory activity. *J.Med.Chem.* **49** 4981. PMID: 16884310.

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