

Product Name: PF 5006739

Catalog No.: 6346

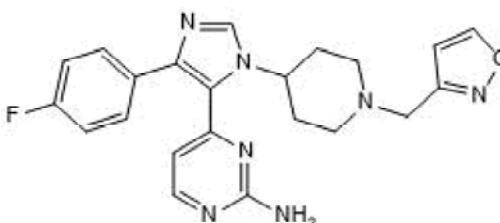
Batch No.: 3

CAS Number: 1293395-67-1

IUPAC Name: 4-[4-(4-Fluorophenyl)-1-[1-(3-isoxazolylmethyl)-4-piperidiny]-1*H*-imidazol-5-yl]-2-pyrimidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₂FN₇O
Batch Molecular Weight: 419.46
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Dichloromethane:Methanol [95:5])
HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.99	5.29	23.36
Found	62.85	5.32	23.3

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

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Description:

Potent casein kinase 1δ/ε inhibitor (IC₅₀ values are 3.9 and 17 nM, respectively). Mediates circadian rhythm phase-delaying effects in vivo. Attenuates opioid drug seeking behaviour in addiction in vivo models.

Physical and Chemical Properties:

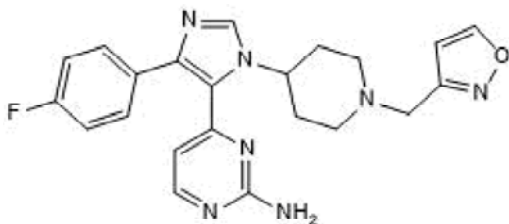
Batch Molecular Formula: C₂₂H₂₂FN₇O

Batch Molecular Weight: 419.46

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Wager et al (2014) Casein kinase 1δ/ε inhibitor PF-5006739 attenuates opioid drug-seeking behavior. *ACS Chem.Neurosci.* **5** 1253. PMID: 25299732.

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