Print Date: Nov 3rd 2020

Certificate of Analysis

www.tocris.com

Product Name: **PF 03814735** **Catalog No.: 4821** **Batch No.: 1**

CAS Number: 942487-16-3

IUPAC Name: *N*-[2-[(1*S*,4*R*)-6-[[4-(Cyclobutylamino)-5-(trifluoromethyl)-2-pyrimidinyl]amino] -1,2,3,4-tetrahydronaphthalen-1,4-imin-9-yl]-2-oxoethyl]-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{25}F_3N_6O_2$

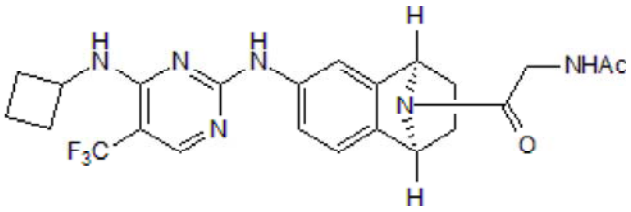
Batch Molecular Weight: 474.48

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.22	5.31	17.71
Found	58.27	5.35	17.74

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Product Information

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Description:

ATP-competitive inhibitor of Aurora kinases A and B (IC_{50} values are 0.8 and 5 nM for recombinant Aurora B and Aurora A, respectively). Inhibits phosphorylation of Aurora B, histone H3 and Aurora A in cultured MDA-MB-231 cells (IC_{50} values are approximately 20, 50 and 150 nM respectively). Shown to block cytokinesis; inhibits cellular proliferation in several human tumor cell lines, including HCT-116, HL-60, A549 and H125, and in human xenograft mouse models. Also enhances adeno-associated virus transduction of retina cells in vitro and in vivo. Orally available.

Physical and Chemical Properties:

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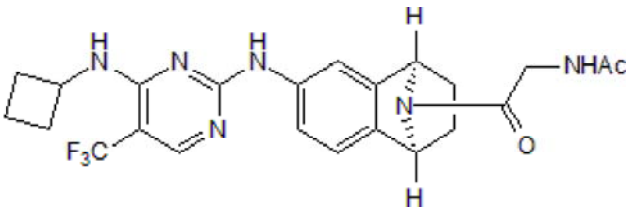
Batch Molecular Weight: 474.48

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 20 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:

Maddelena *et al* (2018) High-throughput screening identifies kinase inhibitors that increase dual adeno-sssociated viral vector transduction *in vitro* and in mouse retina. Hum.Gene.Ther. ***29*** 886. PMID: 29641320.

Hook *et al* (2012) An integrated genomic approach to identify predictive biomarkers of response to the Aurora kinase inhibitor PF-03814735. Mol.Cancer Ther. ***11*** 710. PMID: 22222631.

Kollareddy *et al* (2012) Aurora kinase inhibitors: progress towards the clinic. Invest.New Drugs ***30*** 2411. PMID: 22350019.