

Product Name: PF 04457845

Catalog No.: 6374

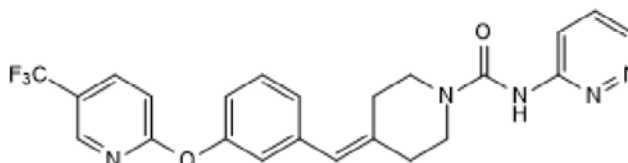
Batch No.: 1

CAS Number: 1020315-31-4

IUPAC Name: *N*-3-Pyridazinyl-4-[[3-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]methylene]-1-piperidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₀F₃N₅O₂
Batch Molecular Weight: 455.43
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.66	4.43	15.38
Found	60.63	4.39	15.24

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

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Description:

Potent and selective irreversible FAAH inhibitor (IC₅₀ = 7.2 nM). Selective for FAAH over a panel of other serine hydrolases. Exhibits efficacy in a rat inflammatory pain model. Orally bioavailable and brain penetrant.

Physical and Chemical Properties:

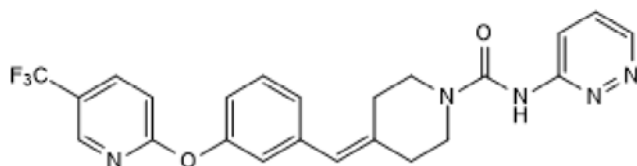
Batch Molecular Formula: C₂₃H₂₀F₃N₅O₂

Batch Molecular Weight: 455.43

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°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:

Ahn et al (2011) Mechanistic and pharmacological characterization of PF-04457845: a highly potent and selective fatty acid amide hydrolase inhibitor that reduces inflammatory and noninflammatory pain. *J.Pharmacol.Exp.Ther.* **338** 114. PMID: 21505060.

Johnson et al (2011) Discovery of PF-04457845: a highly potent, orally bioavailable, and selective urea FAAH inhibitor. *ACS Med.Chem.Lett.* **2** 91. PMID: 21666860.

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