TOCRIS a biotechne brand

IUPAC Name:

Storage:

Print Date: Mar 23rd 2021

Certificate of Analysis

www.tocris.com

Batch No.: 1

Catalog No.: 6374

Product Name: PF 04457845

CAS Number: 1020315-31-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

 $C_{23}H_{20}F_3N_5O_2$ 455.43 Off White solid DMSO to 100 mM ethanol to 20 mM Store at +4°C

F₃Q Ņ

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 98.8% purity Consistent with structure Consistent with structure

	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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

TOCRIS a biotechne brand

Print Date: Mar 23rd 2021

Product Name: PF 04457845

CAS Number: 1020315-31-4

IUPAC Name:

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

Description:

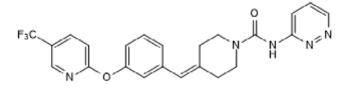
PF 04457845 is a potent and selective irreversible FAAH inhibitor (IC_{50} = 7.2 nM, which is selective for FAAH over a panel of other serine hydrolases. PF 04457845 exhibits efficacy in a rat inflammatory pain model, and is orally bioavailable and brain penetrant.

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 $45-60^{\circ}C$ 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.

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

bio-techne.comNorth AmericaChinaEurope Middle East AfricaRest of Worldinfo@bio-techne.comTel: (800) 343 7475info.cn@bio-techne.comTel: +44 (0)1235 529449www.tocris.com/distributorstechsupport@bio-techne.comTel: +86 (21) 52380373Tel: +44 (0)1235 529449tel: +1612 379 2956

Catalog No.: 6374 Ba

Batch No.: 1