

Certificate of Analysis

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Print Date: Jan 14th 2016

Product Name: PF 3845 Catalog No.: 4175 Batch No.: 2

CAS Number: 1196109-52-0

IUPAC Name: N-3-Pyridinyl-4-[[3-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenyl]methyl]-1-piperidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{23}F_3N_4O_2$

Batch Molecular Weight: 456.46
Physical Appearance: White solid

Solubility: DMSO to 100 mM

ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.6$ (Chloroform:Methanol [9:1])

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 63.15 5.08 12.27
Found 63.13 5.08 12.26



Product Information

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

Description:

Selective fatty acid amide hydrolase (FAAH) inhibitor ($K_i = 0.23$ μM). Reduces inflammatory pain via a cannabinoid receptordependent mechanism. Highly efficacious and selective in vivo. Displays no activity at FAAH-2 ($IC_{50} > 10 \mu M$).

Physical and Chemical Properties:

Batch Molecular Formula: C₂₄H₂₃F₃N₄O₂ Batch Molecular Weight: 456.46 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM ethanol to 50 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:

Ahn et al (2009) Discovery and characterization of a highly selective FAAH inhibitor that reduces inflammatory pain. Chem. Biol. 16 411. PMID: 19389627.

Ahn et al (2009) Fatty acid amide hydrolase as a potential therapeutic target for the treatment of pain and CNS disorders. Expert Opin.Drug Discov. 4763. PMID: 20544003.

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