

Product Name: PF 04418948

Catalog No.: 4818

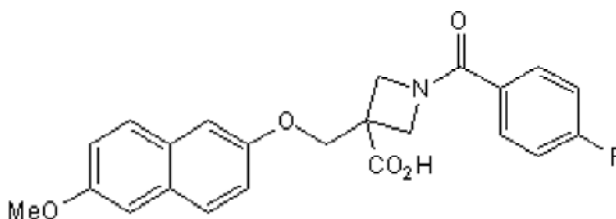
Batch No.: 2

CAS Number: 1078166-57-0

IUPAC Name: 1-(4-Fluorobenzoyl)-3-[[[(6-methoxy-2-naphthalenyl)oxy]methyl]-3-azetidincarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₀FNO₅
Batch Molecular Weight: 409.41
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.48	4.92	3.42
Found	67.18	4.97	3.42

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

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Description:

PF 04418948 is a potent prostaglandin E receptor 2 antagonist (PTGER2; EP₂; IC₅₀ = 16 nM for human EP₂ receptors), which displays over 2000-fold selectivity for EP₂ receptors over EP₁, EP₃, EP₄, DP₁ and CRTH₂ receptors and exhibits <30% binding at a diverse panel of GPCRs and ion channels at a concentration of 10 μM. PF 04418948 inhibits PGE₂-induced increases in intracellular cAMP in vitro and reverses PGE₂-invoked relaxation of mouse trachea (IC₅₀ = 2.7 nM).

Physical and Chemical Properties:

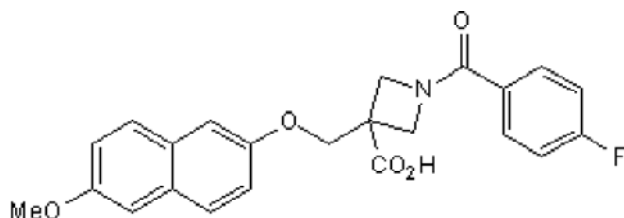
Batch Molecular Formula: C₂₃H₂₀FNO₅

Batch Molecular Weight: 409.41

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Birrell et al (2013) Selectivity profiling of the novel EP₂ receptor antagonist, PF-04418948, in functional bioassay systems: atypical affinity at the guinea pig EP₂ receptor. *Br.J.Pharmacol.* **168** 129. PMID: 22747912.

af Forselles et al (2011) *In vitro* and *in vivo* characterization of PF-04418948, a novel, potent and selective prostaglandin EP₂ receptor antagonist. *Br.J.Pharmacol.* **164** 1847. PMID: 21595651.

Storage: Store at -20°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.

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