

Product Name: PF-3845 Revision Date: 03/14/2025

Product Data Sheet

PF-3845

Cat. No.: A4374

CAS No.: 1196109-52-0 Formula: C24H23F3N4O2

M.Wt: 456.46

Synonyms:

Target: Metabolism

Pathway: FAAH

Storage: Store at -20°C



Soluble in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.1908 mL	10.9539 mL	21.9077 mL
	5 mM	0.4382 mL	2.1908 mL	4.3815 mL
	10 mM	0.2191 mL	1.0954 mL	2.1908 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	FAAH ihibitor,highly poten	FAAH ihibitor,highly potent and selective		
IC ₅₀ & Target	0.23 μM (Ki) (FAAH)			
In Vitro	Cell Viability Assay			
	Preparation method:	and the state of t		
In Vivo	Animal experiment	And the state of t		
	Animal models:	Male C57BL/6 mice with TBI-induced deficits, CFA rat model with		
		inflammatory pain		
	Dosage form:	Intraperitoneal injection, 30 min after TBI, and then once daily for 3 or 14 days;		
		oral administration, 1–30 mg/kg;		

Applications:	Treatment with PF3845 (5 mg/kg, i.p.) completely restored the ability of TBI
	mice to successfully alternate arms during maze exploration. PF3845 (5 mg/kg,
	10 mg/kg, i.p.) significantly attenuated TBI-induced anxiogenic behavior.
	Treatment with PF3845 (5 mg/kg, 10 mg/kg, i.p.) significantly reduced
	TBI-induced deficits in fine motor movement. In a rat model of inflammatory
C Cour	pain, PF-3845 (1-30 mg/kg, oral administration) caused a dose-dependent
Tolore the Unit	inhibition of mechanical allodynia. In FAAH (-/-) mice and wild-type mice,
e Perfection.	treatment with PF-3845 (1–10 mg/kg i.p.) induced an anti-allodynic phenotype.
Riche"	PF-3845 (0.1–10 μg intraplantar) increased AEA levels in the brain and spinal
	cord. Intraplantar PF-3845 produced a partial reduction in allodynia.
Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining
	a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or
	shake it in the ultrasonic bath for a while. Stock solution can be stored below
	-20°C for several months.
Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
Carroun	slightly differ with the theoretical value. This is caused by an experimental
Explore hee	system error and it is normal.
actio.	

Product Citations

1. Daneva Z, Dempsey SK, et al. "Diuretic, Natriuretic, and Vasodepressor Activity of a Lipid Fraction Enhanced in Medium of Cultured Mouse Medullary Interstitial Cells by a Selective Fatty Acid Amide Hydrolase Inhibitor." J Pharmacol Exp Ther. 2019 Feb;368(2):187-198.PMID:30530623

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References

- [1]. Tchantchou F, Tucker L B, Fu A H, et al. The fatty acid amide hydrolase inhibitor PF-3845 promotes neuronal survival, attenuates inflammation and improves functional recovery in mice with traumatic brain injury[J]. Neuropharmacology, 2014, 85: 427-439.
- [2]. Ahn K, Johnson D S, Mileni M, et al. Discovery and characterization of a highly selective FAAH inhibitor that reduces inflammatory pain[J]. Chemistry & biology, 2009, 16(4): 411-420.
- [3]. Booker L, Kinsey S G, Abdullah R A, et al. The fatty acid amide hydrolase (FAAH) inhibitor PF 3845 acts in the nervous system to reverse LPS induced tactile allodynia in mice[J]. British journal of pharmacology, 2012, 165(8): 2485-2496.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt



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