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Data Sheet

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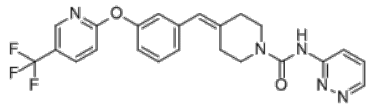
Product Name	:	PF-04457845
Cat. No.	:	PC-20049
CAS No.	:	1020315-31-4
Molecular Formula	:	$C_{23}H_{20}F_3N_5O_2$
Molecular Weight	:	455.44
Target	:	FAAH
Solubility	:	10 mM in DMSO



Biological Activity

PF-04457845 (PF 04457845) is a highly potent, selective and covalent fatty acid amide hydrolase (FAAH) inhibitor with IC50 of 7.2 nM (human FAAH).
PF-04457845 displays no activity against other FP-reactive serine hydrolases at 100 uM, as well as a broad panel of 68 targets including receptors, enzymes, ion channels, and transporters.
PF-04457845 is orally bioavailable, and PF-04457845 (10 mg/kg, p.o.) displays antihyperalgesic activity with long duration of action in the CFA model of inflammatory pain in rats.
PF-04457845 does not elicit effect in motility, catalepsy, and body temperature.

References

Sébastien Dilly, et al. Antioxidants (Basel). 2023 Feb 10;12(2):440.

Li Yet al. Proc. Natl. Acad. Sci. USA. 2012;109:12526–12531.

Ahn K, et al. J Pharmacol Exp Ther. 2011 Jul;338(1):114-24.

E-mail: tech@probechem.com