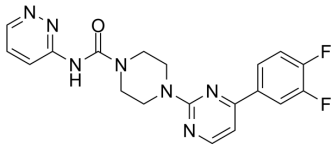
FAAH-IN-6

Cat. No.:	HY-103461
CAS No.:	1143578-94-2
Molecular Formula:	$C_{19}H_{17}F_2N_7O$
Molecular Weight:	397.38
Target:	FAAH
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FAAH-IN-6 (compound 21d) is a potent, orally active and cross the blood-brain barrier fatty acid amide hydrolase (FAAH) inhibitor with IC_{50}s of 0.72, 0.28 nM for hFAAH, rFAAH, respectively. FAAH-IN-6 shows dose-dependent analgesic efficacy in animal models of both neuropathic and inflammatory pain[1].
IC_{50} & Target	IC_{50}: 0.72 nM (hFAAH); 0.28 nM (rFAAH)[1]
In Vivo	FAAH-IN-6 (compound 21d) (1-10 mg/kg; p.o.) shows significantly ameliorates tactile allodynia in a dose-dependent fashion in SNI-induced neuropathic pain rats model[1]. FAAH-IN-6 (3-10 mg/kg; p.o.) shows significantly ameliorates tactile allodynia of the ipsilateral hind paw in CFA-induced inflammatory pain model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kono M, et al. Design, synthesis, and biological evaluation of a series of piperazine ureas as fatty acid amide hydrolase inhibitors. Bioorg Med Chem. 2014 Feb 15;22(4):1468-78.

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