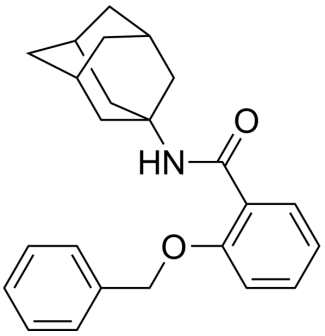
CB2R/FAAH modulator-1

Cat. No.:	HY-152251
CAS No.:	928892-60-8
Molecular Formula:	$C_{24}H_{27}NO_2$
Molecular Weight:	361.48
Target:	Cannabinoid Receptor; FAAH
Pathway:	GPCR/G Protein; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CB2R/FAAH modulator-1 is a cannabinoid type 2 receptor (CB2R) full agonist with K_is of 14.8 nM and 241.3 nM for CB2R and CB1R, respectively. CB2R/FAAH modulator-1 is a fatty acid amide hydrolase (FAAH) inhibitor with an IC_{50} of 4 μM. CB2R/FAAH modulator-1 decreases pro-inflammatory and increases anti-inflammatory cytokines production[1].			
IC_{50} & Target	CB2R 14.8 nM (Ki)	CB2R 123.6 nM (EC50)	CB1R 241.3 nM (Ki)	CB1R 489 nM (EC50)
In Vitro	CB2R/FAAH modulator-1 (compound 13; 10 μM; 24 h) decreases the pro-inflammatory cytokines TNFα, IFN-γ, IL-1β, and IL6 production in unstimulated monocytes and macrophages[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Francesca Intranuov, et al. Development of N-(1-Adamantyl)benzamides as Novel Anti-Inflammatory Multitarget Agents Acting as Dual Modulators of the Cannabinoid CB2 Receptor and Fatty Acid Amide Hydrolase. J Med Chem. 2023 Jan 12;66(1):235-250.

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