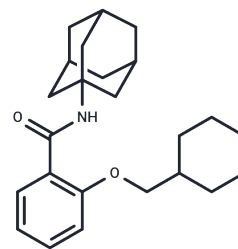


CB2R/FAAH modulator-2

Chemical Properties

CAS No. :	2876918-68-0
Formula:	C ₂₄ H ₃₃ N ₂ O
Molecular Weight:	367.52
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	CB2R/FAAH modulator-2 (compound 26) is a dual modulator targeting CB2R and FAAH, acting as a CB2R agonist ($K_i = 10.8 \text{ nM}$) and FAAH inhibitor ($IC_{50} = 6.2 \text{ }\mu\text{M}$), with a K_i value of 152.9 nM for CB1R. It has research value in cancer, deleterious inflammatory cascades in neurodegenerative diseases, and COVID-19 infection.
Targets(IC_{50})	Cannabinoid Receptor, FAAH
In vitro	CB2R/FAAH modulator-2 (compound 26) ($10 \text{ }\mu\text{M}$) can reduce the production of the pro-inflammatory cytokines $TNF\alpha$, $IFN-\gamma$, $IL-1\beta$, and $IL-6$ in unstimulated monocytes and macrophages [1].

Solubility Information

Solubility	DMSO: 3.68 mg/mL (10.01 mM), Sonication is recommended. ($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7209 mL	13.6047 mL	27.2094 mL
5 mM	0.5442 mL	2.7209 mL	5.4419 mL
10 mM	0.2721 mL	1.3605 mL	2.7209 mL
50 mM	0.0544 mL	0.2721 mL	0.5442 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Francesca Intranuovo, 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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