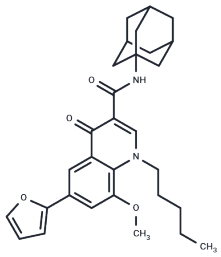
Data Sheet (Cat.No.T22009)

TargetMol

CB2 receptor agonist 2

Chemical Properties



CAS No. : 1314230-75-5

Formula: C30H36N2O4

Molecular Weight: 488.62

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	CB2 receptor agonist 2 (ZINC72105556) is a potent and selective agonist for the CB2 (cannabinoid type 2) receptor, Ki = 8.5 nM. CB2 receptor agonist 2 has high affinity and selectivity for CB2.
Targets(IC50)	Cannabinoid Receptor
In vitro	CB2 receptor agonist 2 (compound 4g) (1 μM, 72 hours) exhibits minimal to no cytotoxicity in Hep-G2 cells[1].
In vivo	CB2 receptor agonist 2 (compound 4g) (1 and 3 mg/kg; 1 hour) is highly potent, showing maximal effect at 1 mg/kg, with antihyperalgesic effects that are effective in the first phase of the nocifensive response and are strongly reduced by AM630, a CB2-selective antagonist/inverse agonist [1].

Solubility Information

Solubility	DMSO: 3 mg/mL (6.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0466 mL	10.2329 mL	20.4658 mL
5 mM	0.4093 mL	2.0466 mL	4.0932 mL
10 mM	0.2047 mL	1.0233 mL	2.0466 mL
50 mM	0.0409 mL	0.2047 mL	0.4093 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

Pasquini S, et al. Investigations on the 4-quinolone-3-carboxylic acid motif. 4. Identification of new potent and selective ligands for the cannabinoid type 2 receptor with diverse substitution patterns and antihyperalgesic effects in mice. J Med Chem. 2011;54(15):5444-5453.

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