

Anti-neuroinflammation agent 1

Chemical Properties

CAS No. :

Formula: C₂₂H₂₀ClF₆N₃O₃

Molecular Weight: 523.86

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	Anti-neuroinflammation Agent 1 effectively modulates BV2 microglia cell polarization, shifting from an M1 to an M2 phenotype [1].
Targets(IC50)	NOD-like Receptor (NLR), Interleukin
In vitro	Anti-neuroinflammation agent 1 (BMP 29) exhibited enhanced anti-neuroinflammatory activity without toxicity to BV2 microglial cells. In LPS-stimulated BV2 microglia, it significantly reduced M1 phenotype microglia, increased M2 phenotype, decreased pro-inflammatory cytokines (IL-18, IL-1 β , TNF- α), increased anti-inflammatory cytokine (IL-10), inhibited NLRP3 inflammasome formation, and downregulated the M2 isoform of pyruvate kinase [1].
In vivo	In mice, Anti-neuroinflammation Agent 1 (BMP 29) mitigates cuprizone-induced inflammation and demyelination by reducing the expression of inducible nitric oxide synthase, while simultaneously increasing the expression of CD206 [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9089 mL	9.5445 mL	19.0891 mL
5 mM	0.3818 mL	1.9089 mL	3.8178 mL
10 mM	0.1909 mL	0.9545 mL	1.9089 mL
50 mM	0.0382 mL	0.1909 mL	0.3818 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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