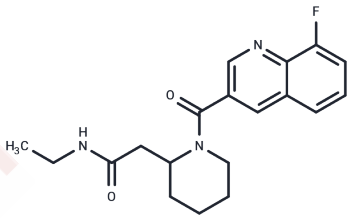
Data Sheet (Cat.No.T212781)

TargetMol

CHI3L1-IN-5

Chemical Properties



CAS No. : 2249043-42-1

Formula: C19H22FN3O2

Molecular Weight: 343.39

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	CHI3L1-IN-5 (Compound Z17) is a highly selective small-molecule inhibitor that targets chitinase-like 1 (CHI3L1). CHI3L1-IN-5 alleviates neuroinflammation by inhibiting the NF-κB pathway. CHI3L1-IN-5 can be used in research on inflammation, fibrosis, Alzheimer's disease, and tumors.
Targets(IC50)	Beta Amyloid,NF-κB,glycosidase,Immunology/Inflammation related
In vitro	Methods: Human iPSC astrocytes were pretreated with CHI3L1-IN-5 (10, 25, 50 μM) for 30 minutes, followed by stimulation with CHI3L1 (300 ng/mL) for 6 hours. Results: CHI3L1 induced a 3.85-fold increase in NF-κB activity; CHI3L1-IN-5 dose-dependently inhibited CHI3L1 activity. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9121 mL	14.5607 mL	29.1214 mL
5 mM	0.5824 mL	2.9121 mL	5.8243 mL
10 mM	0.2912 mL	1.4561 mL	2.9121 mL
50 mM	0.0582 mL	0.2912 mL	0.5824 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

Nada H, et al. Restoring Amyloid Clearance via Astrocytes: Z17 Is a Selective Inhibitor of CHI3L1 in Alzheimers Disease. bioRxiv [Preprint]. 2025 Dec 10:2025.12.07.692801.

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