

GNE-2256

Chemical Properties

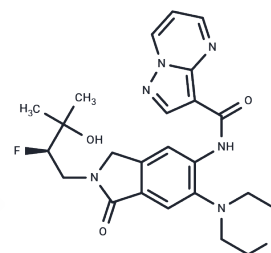
CAS No. : 2102170-43-2

Formula: C₂₄H₂₇FN₆O₄

Molecular Weight: 482.51

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	GNE-2256 (molecule 19) is an orally active inhibitor of interleukin-1 receptor-associated kinase 4 (IRAK4) with a binding affinity of 1.4 nM and an IL-6 IC ₅₀ value of 190 nM, making it a valuable research compound for studying inflammatory signaling cascades, innate immune responses, and cytokine-driven pathological processes.
Targets(IC ₅₀)	IL Receptor, IRAK
In vivo	Method: GNE-2256 was administered at 3 mg/kg in an R848-induced mouse Parkinson's disease model. Result: GNE-2256 inhibited IL-6, TNF- α , and IFN- α secretion in vivo[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0725 mL	10.3625 mL	20.725 mL
5 mM	0.4145 mL	2.0725 mL	4.145 mL
10 mM	0.2072 mL	1.0362 mL	2.0725 mL
50 mM	0.0414 mL	0.2072 mL	0.4145 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

Rajapaksa NS, et al. Discovery of Potent Benzolactam IRAK4 Inhibitors with Robust in Vivo Activity. ACS Med Chem Lett. 2019 Nov 11;11(3):327-333.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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