

GNE-1858

Chemical Properties

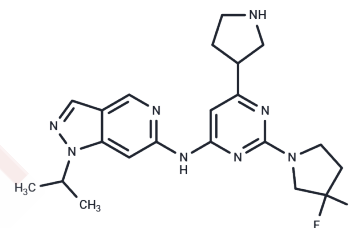
CAS No. : 2680616-96-8

Formula: C₂₁H₂₆F₂N₈

Molecular Weight: 428.48

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-1858 is an ATP-competitive hematopoietic progenitor kinase-1 (HPK1) inhibitor (IC ₅₀ s of 1.9 nM, 1.9 nM, and 4.5 nM for wild-type and the active mimetic mutants HPK1-TSEE and HPK1-SA).
Targets(IC ₅₀)	MAPK
In vitro	HPK1 is a negative-feedback regulator of T cell receptor signaling, which dampens T cell proliferation and effector function. Hematopoietic progenitor kinase-1 (HPK1), a serine/threonine Ste20-related protein kinase whose expression is restricted to the hematopoietic compartment (e.g., T cells, B cells, and dendritic cells), is one such kinase.

Solubility Information

Solubility	DMSO: 4.29 mg/mL (10.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.33 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3338 mL	11.6692 mL	23.3383 mL
5 mM	0.4668 mL	2.3338 mL	4.6677 mL
10 mM	0.2334 mL	1.1669 mL	2.3338 mL
50 mM	0.0467 mL	0.2334 mL	0.4668 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

Wu P, et al. Hematopoietic Progenitor Kinase-1 Structure in a Domain-Swapped Dimer. Structure. 2019 Jan 2;27(1): 125-133.e4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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