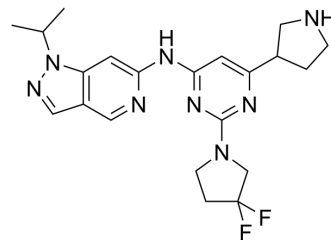


GENE-1858

Cat. No.:	HY-135892		
CAS No.:	2680616-96-8		
Molecular Formula:	C ₂₁ H ₂₆ F ₂ N ₈		
Molecular Weight:	428		
Target:	MAP4K		
Pathway:	MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (46.73 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3364 mL	11.6822 mL	23.3645 mL
		5 mM	0.4673 mL	2.3364 mL	4.6729 mL
10 mM		0.2336 mL	1.1682 mL	2.3364 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (4.67 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (4.67 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (4.67 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	GNE-1858 is a potent and ATP-competitive hematopoietic progenitor kinase-1 (HPK1) inhibitor, with 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, respectively ^[1] .
In Vitro	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. HPK1 is a negative-feedback regulator of T cell receptor signaling, which dampens T cell proliferation and effector function ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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