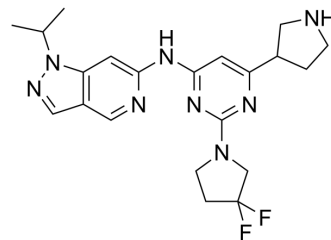


GNE-1858

Cat. No.:	HY-135892		
CAS No.:	2680616-96-8		
Molecular Formula:	C ₂₁ H ₂₆ F ₂ N ₈		
Molecular Weight:	428.48		
Target:	MAP4K		
Pathway:	MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (46.68 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (4.67 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (4.67 mM); Clear solution					
	3. 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA