GLPG3312

Cat. No.:	HY-157442		
CAS No.:	2340388-72-7		
Molecular Formula:	$C_{23}H_{21}F_2N_5O_3$		
Molecular Weight:	453.44		
Target:	Salt-inducible Kinase (SIK)		
Pathway:	Immunology/Inflammation		
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 : 100 mg/mL (2 Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.2054 mL	11.0268 mL	22.0536 mL		
	5 mM	0.4411 mL	2.2054 mL	4.4107 mL			
		10 mM	0.2205 mL	1.1027 mL	2.2054 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.51 mM); Clear solution; Need ultrasonic						
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.51 mM); Clear solution; Need ultrasonic					
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.51 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY							
Description	GLPG3312 (Compound 28) is a selective pan-SIK inhibitor with IC ₅₀ values of 2.0 nM, 0.7 nM and 0.6 nM for SIK1, SIK2 and SIK3, respectively. GLPG3312 exhibits anti-inflammatory and immunomodulatory activity in vitro on human primary myeloid cells and in vivo in mouse models. GLPG3312 has good oral bioavailability and can be used for research on inflammatory and immunory and immune diseases ^[1] .						
IC ₅₀ & Target	SIK1 2.0 nM (IC ₅₀)	SIK2 0.7 nM (IC ₅₀)	SIK3 0.6 nM (IC ₅₀)				

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REFERENCES

[1]. Temal-Laib T, et al. Optimization of Selectivity and Pharmacokinetic Properties of Salt-Inducible Kinase Inhibitors that Led to the Discovery of Pan-SIK Inhibitor GLPG3312. J Med Chem. 2024 Jan 11;67(1):380-401.

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

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