Cevidoplenib

Cat. No.:	HY-109082		
CAS No.:	1703788-21	9	
Molecular Formula:	C ₂₅ H ₂₇ N ₇ O ₃		
Molecular Weight:	473.53		
Target:	Syk		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.1118 mL	10.5590 mL	21.1180 mL		
		5 mM	0.4224 mL	2.1118 mL	4.2236 mL		
		10 mM	0.2112 mL	1.0559 mL	2.1118 mL		
	Please refer to the so	ease refer to the solubility information to select the appropriate solvent.					
In Vivo		d each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline lubility: ≥ 2.5 mg/mL (5.28 mM); Clear solution					
	nt one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) ng/mL (5.28 mM); Suspended solution; Need ultrasonic						

BIOLOGICAL ACTIVITY				
Description	Cevidoplenib (SKI-O-703) is an orally available inhibitor of spleen tyrosine kinase (Syk), with potential anti-inflammatory and immunomodulating activities. Cevidoplenib is also the mesylate form of SKI-O-592. Cevidoplenib and SKI-O-592 inhibits BCR-mediated survival, proliferation, and differentiation of B cells. And SKI-O-592 potently inhibits multiple kinases with IC ₅₀ s of 6.2 nM (Syk), 1.859 μM (Jak2), 5.807 μM (Jak3), 0.412 μM (RET), 0.687 μM (KOR), 1.783 μM (FLT3), 16.96 μM (FGFR1), 5.662 μM (FGFR3), and 0.709 μM (Pyk2), respectively ^{[1][2][3]} .			
IC ₅₀ & Target	IC50: 6.2 nM (Syk), 1.859 μM (Jak2), 5.807 μM (Jak3), 0.412 μM (RET), 0.687 μM (KOR), 1.783 μM (FLT3), 16.96 μM (FGFR1), 5.662 μM (FGFR3), and 0.709 μM (Pyk2) ^[3]			
In Vivo	Upon oral administration, cevidoplenib binds to and inhibits the activity of SYK, blocking Fc receptor and B-cell receptor			

Product Data Sheet

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(BCR)-mediated signaling in inflammatory cells, including macrophages, neutrophils, mast cells, natural killer (NK) cells and B cells^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cho S, et al. A novel selective spleen tyrosine kinase inhibitor SKI-O-703 (cevidoplenib) ameliorates lupus nephritis and serum-induced arthritis in murine models. Clin Exp Immunol. 2023 Mar 8;211(1):31-45.

[2]. International Nonproprietary Names for Pharmaceutical Substances (INN). WHO Drug Information, Vol. 31, No. 4, 2017.

[3]. cevidoplenib dimesylate.

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

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