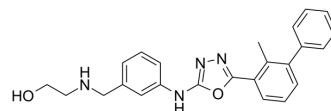


PD-1/PD-L1-IN-14

Cat. No.:	HY-144258
CAS No.:	2499965-12-5
Molecular Formula:	C ₂₄ H ₂₄ N ₄ O ₂
Molecular Weight:	400.47
Target:	PD-1/PD-L1
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (249.71 mM); ultrasonic and warming and heat to 160°C)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4971 mL	12.4853 mL	24.9707 mL	
		5 mM	0.4994 mL	2.4971 mL	4.9941 mL	
		10 mM	0.2497 mL	1.2485 mL	2.4971 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: 2.5 mg/mL (6.24 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 (6.24 mM); Clear solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.24 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	PD-1/PD-L1-IN-14 (compound 17) is a bifunctional inhibitor of PD-1/PD-L1 interactions, with an IC ₅₀ of 27.8 nM. PD-1/PD-L1-IN-14 (compound 17) inhibits PD-1/PD-L1 interactions and promotes dimerization, internalization, and degradation of PD-L1 [1].
IC ₅₀ & Target	IC ₅₀ 27.8 nM (PD-1/PD-L1)[1].
In Vitro	PD-1/PD-L1-IN-14 (compound 17) promotes cell-surface PD-L1 internalized into the cytosol and induces the degradation of PD-L1 in tumor cells through a lysosome-dependent pathway[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tianyu Wang, et al. Discovery of Small-Molecule Inhibitors of the PD-1/PD-L1 Axis That Promote PD-L1 Internalization and Degradation. J Med Chem. 2022 Mar 10;65(5):3879-3893.

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

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