PD-L1-IN-2

Cat. No.:	HY-149830		
CAS No.:	2894733-91	4	
Molecular Formula:	$C_{_{33}}H_{_{38}}N_{_4}O_{_6}$		
Molecular Weight:	586.68		
Target:	PD-1/PD-L1		
Pathway:	Immunolog	gy/Inflam	mation
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro DMSO: 50 mg/mL (85.23 mM; Need ultrasonic) Mass Solvent 1 mg 5 mg 10 mg Concentration Preparing 1 mM 1.7045 mL 8.5225 mL 17.0451 mL **Stock Solutions** 5 mM 0.3409 mL 1.7045 mL 3.4090 mL 10 mM 0.1705 mL 0.8523 mL 1.7045 mL Please refer to the solubility information to select the appropriate solvent. In Vivo 1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.26 mM); Clear solution

BIOLOGICAL ACTIV	
DIOLOGICAL ACTIV	
Description	PD-L1-IN-2 is a potential tumor immunological agent by inhibiting PD-L1. PD-L1-IN-2 is a Naamidine J derivative and exerts antitumor effects in vivo by reducing PD-L1 expression and enhancing tumor-infiltrating T-cell immunity. PD-L1-IN-2 is used for colorectal cancer research ^[1] .
In Vitro	 PD-L1-IN-2 (compound 11c) is against RKO Cells with an IC₅₀ value of 31.7μM^[1]. PD-L1-IN-2 (0-10 μM; 0-24 hours) decreases PD-L1 expression in a dose-dependent and time dependent manner in RKO cells ^[1]. PD-L1-IN-2 (0-10 μM; 0-24 hours) promotes the turnover of PD-L1 protein.It shows the turnover rate of PD-L1 in PD-L1-IN-2-treated cells is faster than that in untreated cells in the CHX pulse-chase^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1]

Product Data Sheet



	Cell Line:	RKO cells
	Concentration:	5 μΜ
	Incubation Time:	0h, 1h, 3h, 6h, 9h, 12h
	Result:	Promoted the turnover of PD-L1 protein.
vo	at 45 mg/kg, and the ave	
vo	at 45 mg/kg, and the ave	erage tumor weight of the 50 mg/kg groups is significantly lower than that of the PBS ${ m group}^{[1]}$
vo	at 45 mg/kg, and the ave MCE has not independe	
/0	at 45 mg/kg, and the ave MCE has not independe Animal Model:	erage tumor weight of the 50 mg/kg groups is significantly lower than that of the PBS group ^[1] ntly confirmed the accuracy of these methods. They are for reference only. C57BL/6 mice with subcutaneous MC38 tumors ^[1]

REFERENCES

[1]. Pan-Pan Fu, et al. Bioactivity-Driven Synthesis of the Marine Natural Product Naamidine J and Its Derivatives as Potential Tumor Immunological Agents by Inhibiting Programmed Death-Ligand 1. J Med Chem. 2023 Apr 27;66(8):5427-5438.

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

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