

PD-1/PD-L1-IN-10

Chemical Properties

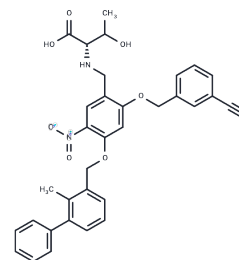
CAS No. : 2487550-41-2

Formula: C33H31N3O7

Molecular Weight: 581.62

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	PD-1/PD-L1-IN-10 is an orally available PD-1/PD-L1 inhibitor (IC50 value of 2.7 nM) that shows anti-tumor activity.
Targets(IC50)	Apoptosis,PD-1/PD-L1
In vitro	PD-1/PD-L1-IN-10 (compound B2) effectively enhances interferon-gamma secretion in vitro in a dose-dependent manner, starting at 1 nM, without compromising the viability of Lewis lung carcinoma (LLC) cells or lymph node T-cells[1]. It significantly stabilizes PD-L1 protein levels in LLC cells within the 0-100 nM range, showing a dose-dependent effect on PD-L1 stability at 58 °C, suggesting penetration and direct interaction with PD-L1[1].
In vivo	PD-1/PD-L1-IN-10 (compound B2, 5 mg/kg, intragastric gavage) exhibits potent in vivo anticancer efficacy by effectively blocking tumor cell proliferation and inducing apoptosis in LLC tumor tissues in an LLC-bearing allograft mouse model.[1]

Solubility Information

Solubility	DMSO: 100 mg/mL (171.93 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3.3 mg/mL (5.67 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7193 mL	8.5967 mL	17.1934 mL
5 mM	0.3439 mL	1.7193 mL	3.4387 mL
10 mM	0.1719 mL	0.8597 mL	1.7193 mL
50 mM	0.0344 mL	0.1719 mL	0.3439 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

OuYang Y, et al. Design, Synthesis, and Evaluation of o-(Biphenyl-3-ylmethoxy)nitrophenyl Derivatives as PD-1/PD-L1 Inhibitors with Potent Anticancer Efficacy In Vivo. *J Med Chem.* 2021 Jun 10;64(11):7646-7666.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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