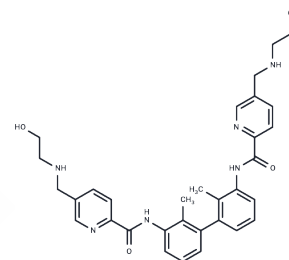


ARB-272572

Chemical Properties

CAS No. : 2368182-63-0
 Formula: C32H36N6O4
 Molecular Weight: 568.67
 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	ARB-272572 is a potent inhibitor of programmed cell death ligand 1 (PD-L1) signaling that induces PD-L1 homodimer interactions and produces immunostimulatory activity in human primary cells.
Targets(IC50)	PD-1/PD-L1
In vitro	METHODS: Small molecules were screened in a cell-free in vitro homogeneous time-resolved fluorescence (HTRF) assay using α PD-L1 (MIH1) and α PD-1 (nivolumab) antibodies as positive controls. RESULTS: ARB-272572 inhibited PD-1/PD-L1 with an IC50 value of 400 pM.[1]
In vivo	"METHODS: PD-1/PD-L1 humanized mice implanted with MC38 cells expressing humanized PD-L1 and treated with ARB-272572 (10 mg/kg orally, 7 times daily, days 0-6) or α PD-L1 (10 mg/kg intraperitoneally, 3 times per week, days 0-16). Statistically significant tumor growth inhibition was observed with α PD-L1 antibody or Compound A treatment. RESULTS: ARB-272572 treatment resulted in a 60.4% reduction in mean tumor volume in 60.4% of mice after only 7 days. [1]"

Solubility Information

Solubility	DMSO: 150 mg/mL (263.77 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (5.8 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	1.7585 mL	8.7924 mL	17.5849 mL
5 mM	0.3517 mL	1.7585 mL	3.517 mL
10 mM	0.1758 mL	0.8792 mL	1.7585 mL
50 mM	0.0352 mL	0.1758 mL	0.3517 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

Park JJ, et al. Checkpoint inhibition through small molecule-induced internalization of programmed death-ligand
Nat Commun. 2021 Feb 22;12(1):1222.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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