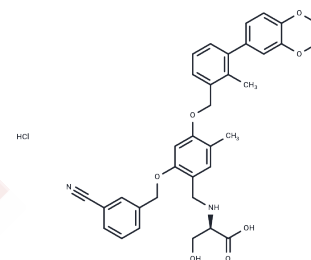


BMS-1001 hydrochloride

Chemical Properties

CAS No. :	2113650-04-5
Formula:	C ₃₅ H ₃₅ ClN ₂ O ₇
Molecular Weight:	631.11
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	BMS-1001 hydrochloride is an orally active inhibitor of human PD-1/PD-L1 immune checkpoint with low-toxicity in cells. BMS-1001 alleviates the inhibitory effect of the soluble PD-L1 on the T-cell receptor-mediated activation of T-lymphocytes. BMS-1001 is capable of alleviating the PD-1/PD-L1 immune checkpoint-mediated exhaustion of Jurkat T-lymphocytes.
Targets(IC50)	PD-1/PD-L1
In vitro	BMS-1001 binds to human PD-L1 and blocks its interaction with PD-1. BMS-1001 alleviates the inhibitory effect of the soluble PD-L1 on the T-cell receptor-mediated activation of T-lymphocytes. It presents low toxicity towards tested cell lines and blocks the interaction of soluble PD-L1 with the cell surface-expressed PD-1.

Solubility Information

Solubility	DMSO: 11.5 mg/mL (18.22 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: 1 mg/mL (1.58 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	1.5845 mL	7.9225 mL	15.8451 mL
5 mM	0.3169 mL	1.5845 mL	3.169 mL
10 mM	0.1585 mL	0.7923 mL	1.5845 mL
50 mM	0.0317 mL	0.1585 mL	0.3169 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

Skalniak L, et al. Small-molecule inhibitors of PD-1/PD-L1 immune checkpoint alleviate the PD-L1-induced exhaustion of T-cells. *Oncotarget*. 2017 Aug 7;8(42):72167-72181.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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