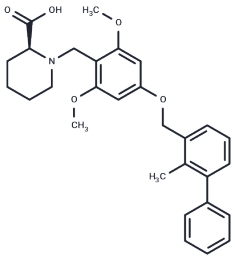
Data Sheet (Cat.No.T3655)

TargetMol

BMS-1

Chemical Properties



CAS No. : 1675201-83-8

Formula: C29H33NO5

Molecular Weight: 475.58

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-1 (PD-1/PD-L1 inhibitor 1) is an inhibitor of the PD1-PD-L1 protein-protein interaction. It also acts as an immunomodulator. Programmed death ligand 1 (PD-L1) is a protein in humans that is encoded by the CD274 gene and the upregulation of PD-L1 allows Ys to evade the host immune system. High tumor expression of PD-L1 was associated with increased tumor aggressiveness and a 4.5-fold increased risk of death.
Targets(IC50)	Apoptosis,PD-1/PD-L1

Solubility Information

Solubility	DMSO: 13 mg/mL (27.34 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 (2.1 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1027 mL	10.5135 mL	21.027 mL
5 mM	0.4205 mL	2.1027 mL	4.2054 mL
10 mM	0.2103 mL	1.0513 mL	2.1027 mL
50 mM	0.0421 mL	0.2103 mL	0.4205 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

Chupak Louis S,et al. From PCT Int. Appl. (2015), WO 2015034820 A1 20150312.
Zhao Y, Hao C, Li M, et al. PD-1/PD-L1 inhibitor ameliorates silica-induced pulmonary fibrosis by maintaining systemic immune homeostasis. Biomedicine & Pharmacotherapy. 2022, 148: 112768.
Choi J G, Kim Y S, Kim J H, et al. Anticancer effect of Salvia plebeia and its active compound by improving T-cell activity via blockade of PD-1/PD-L1 interaction in humanized PD-1 mouse model[J]. Frontiers in immunology,. 2020, 11.
Choi J G, Kim Y S, Kim J H, et al. Anticancer effect of Salvia plebeia and its active compound by improving T-cell activity via blockade of PD-1/PD-L1 interaction in humanized PD-1 mouse model. Frontiers in immunology. 2020 Nov 5;11:598556. doi: 10.3389