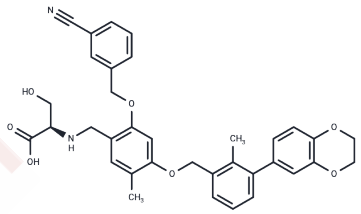
Data Sheet (Cat.No.T8470)

TargetMol

BMS-1001

Chemical Properties



CAS No. : 2113650-03-4

Formula: C35H34N2O7

Molecular Weight: 594.7

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 is a potent inhibitor of PD-1/PD-L1 interaction(IC50 : 2.25 nM, in a homogenous time-resolved fluorescence binding assay).
Targets(IC50)	PD-1/PD-L1
In vitro	The small-molecule inhibitors of the PD-1/PD-L1 interaction, BMS-1001 , ?bind to human PD-L1 and block its interaction with PD-1, when tested on isolated proteins.?The compounds present low toxicity towards tested cell lines and block the interaction of soluble PD-L1 with the cell surface-expressed PD-1.?BMS-1001 alleviate the inhibitory effect of the soluble PD-L1 on the T-cell receptor-mediated activation of T-lymphocytes.?Moreover, the compounds were effective in attenuating the inhibitory effect of the cell surface-associated PD-L1.

Solubility Information

Solubility	DMSO: 5.95 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6815 mL	8.4076 mL	16.8152 mL
5 mM	0.3363 mL	1.6815 mL	3.363 mL
10 mM	0.1682 mL	0.8408 mL	1.6815 mL
50 mM	0.0336 mL	0.1682 mL	0.3363 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 , Zak K M , Guzik K , et al. Small-molecule inhibitors of PD-1/PD-L1 immune checkpoint alleviate the PD-L1-induced exhaustion of T-cells[J]. Oncotarget, 2017, 8(42).

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