

BMS-37

## Chemical Properties

CAS No. : 1675202-20-6

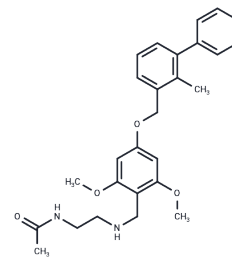
Formula: C<sub>27</sub>H<sub>32</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 448.55

Keep away from direct sunlight

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-37 is a PD-1/PD-L1 immune checkpoint inhibitor exhibiting IC <sub>50</sub> values ranging from 18 to 200 nM against the PD-L1/PD-1 complex, while displaying nonspecific cytotoxicity toward modified Jurkat T cells with EC <sub>50</sub> values between 3 and 6 μM, and it is widely used to investigate PD-L1-induced T-cell exhaustion mechanisms or as a PD-L1 ligand scaffold for the rational design and synthesis of PROTAC molecules in immunology research.
Targets(IC <sub>50</sub> )	PD-1/PD-L1

## Solubility Information

Solubility	DMSO: 80 mg/mL (178.35 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2294 mL	11.147 mL	22.2941 mL
5 mM	0.4459 mL	2.2294 mL	4.4588 mL
10 mM	0.2229 mL	1.1147 mL	2.2294 mL
50 mM	0.0446 mL	0.2229 mL	0.4459 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

Yang L, et al. Design, synthesis, and evaluation of PD-L1 degraders to enhance T cell killing activity against melanoma. Chinese Chemical Letters. 2022 Aug 20: 107762.

Zak KM, et al. Structural basis for small molecule targeting of the programmed death ligand 1 (PD-L1). Oncotarget. 2016 May 24;7(21):30323-35.

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.

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