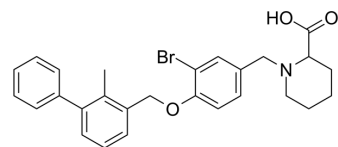


BMS-8

Cat. No.:	HY-116274
CAS No.:	1675201-90-7
Molecular Formula:	C ₂₇ H ₂₈ BrNO ₃
Molecular Weight:	494.42
Target:	PD-1/PD-L1
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (168.54 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.0226 mL	10.1129 mL	20.2257 mL	
5 mM	0.4045 mL	2.0226 mL	4.0451 mL	
10 mM	0.2023 mL	1.0113 mL	2.0226 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BMS-8 inhibits the PD-1/PD-L1 interaction with IC₅₀ of 7.2 μM. BMS-8, binds directly to PD-L1 and induces formation of PD-L1 homodimers, which in turn prevents the interaction with PD-1^[1].

In Vitro

BMS-8 tends to have a more stable binding mode with one PD-L1 monomer than the other and the small-molecule inducing PD-L1 dimerization was further stabilized by the non-polar interaction of Ile54, Tyr56, Met115, Ala121, and Tyr123 on both monomers and the water bridges involved in ALys124^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Eun-Hye Kim, et al. Preparation of Biphenyl-Conjugated Bromotyrosine for Inhibition of PD-1/PD-L1 Immune Checkpoint Interactions. *Int J Mol Sci.* 2020 May 21;21(10):3639.

[2]. Danfeng Shi, et al. Computational Insight Into the Small Molecule Intervening PD-L1 Dimerization and the Potential Structure-Activity Relationship. *Front Chem.* 2019 Nov 12;7:764.

Caution: Product has not been fully validated for medical applications. For research use only.

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