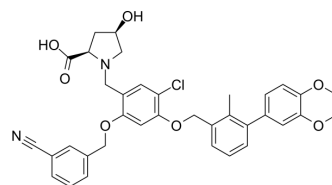


BMS-1166

Cat. No.:	HY-102011		
CAS No.:	1818314-88-3		
Molecular Formula:	C ₃₆ H ₃₃ ClN ₂ O ₇		
Molecular Weight:	641		
Target:	PD-1/PD-L1		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (195.01 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	1.5601 mL	7.8003 mL	15.6006 mL
			5 mM	0.3120 mL	1.5601 mL	3.1201 mL
10 mM	0.1560 mL	0.7800 mL	1.5601 mL			
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.24 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.24 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.24 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	BMS-1166 is a potent PD-1/PD-L1 immune checkpoint inhibitor. BMS-1166 induces dimerization of PD-L1 and blocks its interaction with PD-1, with an IC ₅₀ of 1.4 nM. BMS-1166 antagonizes the inhibitory effect of PD-1/PD-L1 immune checkpoint on T cell activation ^{[1][2]} .
IC ₅₀ & Target	IC ₅₀ : 1.4 nM (PD-1/PD-L1 interaction) ^[1] .
In Vitro	BMS-1166 is a potent PD-1/PD-L1 interaction inhibitor with an IC ₅₀ of 1.4 nM in a homogenous time-resolved fluorescence binding assay ^[1] . BMS-1166 antagonizes the inhibitory effect of PD-1/PD-L1 immune checkpoint on T cell activation. BMS-

1166 dose dependently abolishes the inhibition of ECs stimulation by sPD-L1^[2].

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

REFERENCES

[1]. Guzik K, et al. Small-Molecule Inhibitors of the Programmed Cell Death-1/Programmed Death-Ligand 1 (PD-1/PD-L1) Interaction via Transiently Induced Protein States and Dimerization of PD-L1. *J Med Chem.* 2017 Jul 13;60(13):5857-5867.

[2]. 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA