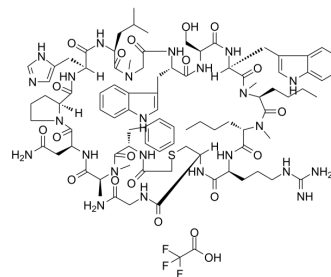


PD-1/PD-L1-IN 3 TFA

Cat. No.:	HY-103048A
Molecular Formula:	C ₉₁ H ₁₂₇ F ₃ N ₂₄ O ₂₀ S
Molecular Weight:	1966.19
Sequence Shortening:	Maa-FANPHL-Sar-WSW-Nle-Nle-RCG (Disulfide bridge: Maa1-Cys15)
Target:	PD-1/PD-L1
Pathway:	Immunology/Inflammation
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (25.43 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.5086 mL	2.5430 mL	5.0860 mL
5 mM	0.1017 mL	0.5086 mL	1.0172 mL
10 mM	0.0509 mL	0.2543 mL	0.5086 mL

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

BIOLOGICAL ACTIVITY

Description

PD-1/PD-L1-IN 3 TFA, a macrocyclic peptide, is a potent and selective inhibitor of the PD-1/PD-L1 and CD80/PD-L1 interactions extracted from patent WO2014151634A1, compound No.1. PD-1/PD-L1-IN 3 TFA interferes with PD-L1 binding to PD-1 and CD80 by binding to PD-L1, with IC₅₀s of 5.60 nM and 7.04 nM, respectively. PD-1/PD-L1-IN 3 TFA can be used for the research of various diseases, including cancer and infectious diseases^[1].

IC₅₀ & Target

IC₅₀: 5.60 nM (PD-1/PD-L1); 7.04 nM (CD80/PD-L1)^[1]

In Vitro

PD-1/PD-L1-IN 3 (0.1 nM-10 μM) inhibits the binding of PD-1 and CD80 to PD-L1, with IC₅₀s of 5.60 nM and 7.04 nM^[1]. PD-1/PD-L1-IN 3 blocks the binding of recombinant PD-L1-Ig to Jurkat-PD-1 cells, and also block binding of recombinant PD-1-Ig to either L2987 or LK35.2-hPD-L1, with IC₅₀s of 26 nM, 12 nM, and 3.5 nM, respectively^[1]. PD-1/PD-L1-IN 3 (0.001-100 μM) promotes IFN secretion by CMV-specific T cells in a dose-dependent manner, with an EC₅₀ of 400 nM^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. MILLER, Michael Matthew, et al. Macrocyclic inhibitors of the pd-1/pd-l1 and cd80(b7-1)/pd-l1 protein/protein interactions. WO2014151634A1.

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

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