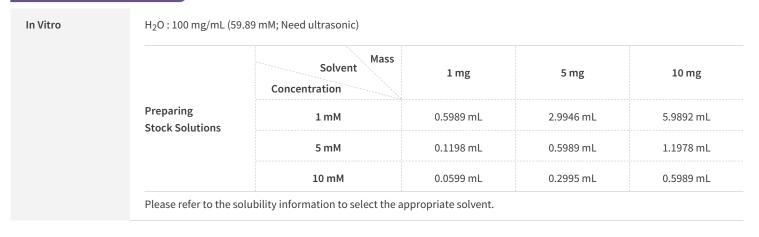
(D)-PPA 1 TFA

MedChemExpress

HY-P4072A	
$C_{72}H_{99}F_{3}N_{20}O_{23}$	H ₂ N
1669.67	NH2 F
D-{Asn-Tyr-Ser-Lys-Pro-Thr-Asp-Arg-Gln-Tyr-His-Phe}	NH OH OH ONH2 NH
D-{NYSKPTDRQYHF}	
PD-1/PD-L1	
Immunology/Inflammation	H₂N [™] NH
Sealed storage, away from moisture and light, under nitrogen	
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, under nitrogen)	
	C ₇₂ H ₉₉ F ₃ N ₂₀ O ₂₃ 1669.67 D-{Asn-Tyr-Ser-Lys-Pro-Thr-Asp-Arg-Gln-Tyr-His-Phe} D-{NYSKPTDRQYHF} PD-1/PD-L1 Immunology/Inflammation Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

SOLVENT & SOLUBILITY



BIOLOGICAL ACTIVITY	
Description	(D)-PPA 1 TFA is a hydrolysisresistant d-peptide antagonist. (D)-PPA 1 TFA serves as a potent PD-1/PD-L1 inhibitor. (D)-PPA 1 TFA binds to PD-1 with the affinity 0f 0.51 μM with in vitro and in vivo efficacy ^[1] .
In Vitro	(D)-PPA 1 TFA (0.2 mg/mL, 1.0 mg/mL) blocks the interaction between PD-1/PD-L1 at 1.0 mg/mL ^[1] . (D)-PPA 1 TFA (3.125-100 μM; 24 h, 48 h) doesn't kill tumor cells directly with no affect on CT26 cells growth ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	(D)-PPA 1 TFA (2 mg/kg; s.c. or i.p.; once daily for 7 d) inhibits CT26 tumor growth in vivo in mice ^[1] . (D)-PPA 1 TFA (40 μg/mouse in 200 μL; i.v.; single dose) has the ability to target to tumor tissue in CT26-tumor-bearing mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chang HN, et al. Blocking of the PD-1/PD-L1 Interaction by a D-Peptide Antagonist for Cancer Immunotherapy. Angew Chem Int Ed Engl. 2015 Sep 28;54(40):11760-4.

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

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