

(D)-PPA 1 TFA

Chemical Properties

CAS No. :

Formula: C72H99F3N20O23

Molecular Weight: 1669.67

Keep away from moisture

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	(D)-PPA 1 TFA, a hydrolysis-resistant D-peptide antagonist, is a potent PD-1/PD-L1 inhibitor with an affinity for PD-1 of 0.51 μ M, demonstrating efficacy both in vitro and in vivo [1].
Targets(IC50)	PD-1/PD-L1
In vitro	(D)-PPA 1 TFA at concentrations of (0.2 mg/mL, 1.0 mg/mL) inhibits the interaction between PD-1 and PD-L1 at 1.0 mg/mL [1]. (D)-PPA 1 (3.125-100 μ M; 24 h, 48 h) does not directly kill tumor cells and has no effect on the growth of CT26 cells [1].
In vivo	(D)-PPA 1 TFA administered at a dose of 2 mg/kg through subcutaneous or intraperitoneal injection once daily for seven consecutive days inhibited the growth of CT26 tumors in mice [1]. Additionally, a single intravenous dose of 40 μ g/mouse in 200 μ L demonstrated the capability to target tumor tissue in CT26 tumor-bearing mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5989 mL	2.9946 mL	5.9892 mL
5 mM	0.1198 mL	0.5989 mL	1.1978 mL
10 mM	0.0599 mL	0.2995 mL	0.5989 mL
50 mM	0.012 mL	0.0599 mL	0.1198 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481