

TPP-1 hydrochloride

Chemical Properties

CAS No. :

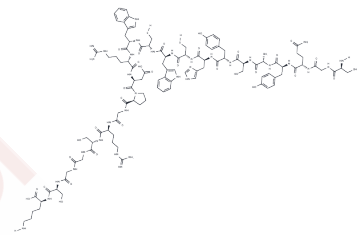
Formula: C107H150N34O32S2.HCl

Molecular Weight: 2525.14

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

TPP-1, a peptide inhibitor, targets the interaction between programmed cell death protein 1 (PD-1) and its ligand (PD-L1), binding specifically to PD-L1 with a dissociation constant (Kd) of 94.67 nM. At a concentration of 20 μ M, TPP-1 effectively counteracts the PD-L1-induced suppression of IFN- γ production in anti-CD3-stimulated isolated human CD4+ T cells. Furthermore, TPP-1 demonstrates significant efficacy in reducing tumor volume in a mouse xenograft model of HL-60 leukemia. This model involved HL-60 cells co-cultured with anti-CD3-activated isolated human CD4+ T cells, with TPP-1 administration at a dosage of 4 mg/kg showing notable antitumor activity.

Solubility Information

Solubility

PBS pH 7.2: 1 mg/mL (0.4 mM), Sonication is recommended.
DMSO: 10 mg/mL (3.96 mM), Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.396 mL	1.9801 mL	3.9602 mL
5 mM	0.0792 mL	0.396 mL	0.792 mL
10 mM	0.0396 mL	0.198 mL	0.396 mL
50 mM	0.0079 mL	0.0396 mL	0.0792 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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