

ANT308

Chemical Properties

CAS No. :	2871680-36-1
Formula:	C156H261N47O40S
Molecular Weight:	3467.15
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	ANT308 is an antagonist of the vasoactive intestinal peptide (VIP receptor). It significantly enhances T cell activation and proliferation. By inhibiting VIP-VPAC2 signaling and reducing the expression of MCAM and N-cadherin, ANT308 suppresses melanoma cell migration and metastasis while inducing apoptosis. This compound is useful for research in acute myeloid leukemia (AML) and uveal melanoma (UVM).
Targets(IC50)	Apoptosis
In vitro	ANT308 significantly increases the expression of CD69 and Ki67 in CD4+ and CD8+ T cells at concentrations of 1-10 μ M over 48 hours. It reduces the viability of B16F10 and HT-144 cells in a dose-dependent manner at 0.1-10 μ M over 72 hours. Without ANT308 (0 μ M) for 72 hours, there is a reduction in the S phase cell population and induction of apoptosis in B16LS9 and Mel 290 cells. At 10 μ M for 72 hours, ANT308 markedly inhibits cell migration in the B16LS9, Mel290, and HT-144 cell lines. Furthermore, over 72 hours, ANT308 decreases the expression of MCAM and N-cadherin by inhibiting VIP-VPAC2 signaling.
In vivo	ANT308, when administered subcutaneously at 6 nmol once daily for 10-14 days, significantly prolongs the survival of mice and reduces tumor burden in an AML model. Furthermore, ANT308 (100 μ g/100 μ L PBS, subcutaneously, twice daily for 10 days) decreases the number and size of hepatic metastases following intraocular or subcutaneous melanoma cell injections in mice and shows a tendency to reduce the tumor volume at the primary sites.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2884 mL	1.4421 mL	2.8842 mL
5 mM	0.0577 mL	0.2884 mL	0.5768 mL
10 mM	0.0288 mL	0.1442 mL	0.2884 mL
50 mM	0.0058 mL	0.0288 mL	0.0577 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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