

Allo-aca

Chemical Properties

CAS No. :

Formula: C48H75N13O15

Molecular Weight: 1074.19

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	Allo-aca, a leptin peptidomimetic, acts as a potent antagonist peptide that selectively inhibits leptin receptor activity, effectively disrupting leptin signaling in various in vitro and in vivo models [1] [2].
Targets(IC50)	Neuropeptide Y Receptor
In vitro	At a concentration of 50 pM, Allo-aca inhibits leptin-induced proliferation of MDA-MB-231 cells. It also suppresses leptin-induced proliferation of MCF-7 cells with an IC50 of 200 pM [1]. At 250 nmol/L, Allo-aca reduces the expression of VEGF-dependent leptin mRNA below baseline levels in both cell lines. Additionally, Allo-aca inhibits the mitogenic effects induced by VEGF. In RF/6A retinal endothelial cells, Allo-aca obstructs VEGF-induced chemotaxis and haptotaxis [2].
In vivo	In the MDA-MB-231 orthotopic mouse xenograft model, subcutaneous administration of Allo-aca at doses of 0.1 and 1 mg/kg/day significantly extended the average survival time from 15.4 days (untreated control group) to 24 days and 28.1 days, respectively [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9309 mL	4.6547 mL	9.3093 mL
5 mM	0.1862 mL	0.9309 mL	1.8619 mL
10 mM	0.0931 mL	0.4655 mL	0.9309 mL
50 mM	0.0186 mL	0.0931 mL	0.1862 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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