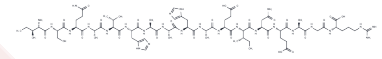


OVA Peptide (323-339)

Chemical Properties

CAS No. :	92915-79-2
Formula:	C74H120N26O25
Molecular Weight:	1773.9
Storage:	Keep away from moisture Store at -20°C <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	OVA Peptide (323-339) is an immunodominant epitope peptide derived from chicken ovalbumin (OVA), which is the major MHC class II-restricted T-cell epitope that specifically binds H2-IA _d molecules, and a B-cell epitope that is recognized by IgE antibodies. It is commonly used in the study of egg allergy, and is able to induce strong Th2-type immune responses and IgE antibody production in mice.
Targets(IC50)	MHC
In vitro	At low concentrations (0.01 μM), OVA Peptide (323-339) enhances the ability of M2Y-type B cells to activate Th cells, more so than M2-type B cells[1].
In vivo	OVA Peptide (323-339) is widely used in BALB/c mouse models to induce allergic immune responses. Repeated exposure results in enhanced production of OVA-specific IgE and Th2 cytokines, making it a potent tool for modeling antigen-specific hypersensitivity and allergy-related immune activation [2].

Solubility Information

Solubility	H2O: 10 mg/mL (5.64 mM), when pH is adjusted to 3 with CH ₃ COOH. Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5637 mL	2.8186 mL	5.6373 mL
5 mM	0.1127 mL	0.5637 mL	1.1275 mL
10 mM	0.0564 mL	0.2819 mL	0.5637 mL
50 mM	0.0113 mL	0.0564 mL	0.1127 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.

Reference

Fontinha D, Lopes FB, Marques S, Alenquer M, Simas JP. Murid Gammaherpesvirus Latency-Associated Protein M2 Promotes the Formation of Conjugates between Transformed B Lymphoma Cells and T Helper Cells. PLoS One. 2015 Nov 6;10(11):e0142540.

Sun LZ, Elsayed S, Aasen TB, Van Do T, Aardal NP, Florvaag E, Vaali K. Comparison between ovalbumin and ovalbumin peptide 323-339 responses in allergic mice: humoral and cellular aspects. Scand J Immunol. 2010 May; 71(5):329-35.

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