ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat# **SP-51023-1**
Description: OVA (323-339) peptide
Sequence: Ile-Ser-Gln-Ala-Val-His-Ala-Ala-His-Ala-Glu-Ile-Asn-Glu-Ala-Gly-Arg-OH; MW: 1773.9
Size: 1 mg
Purity: >95%
Store: Desiccated at -20oC.

Food allergy is a major concern for human health and there is therefore an urgent issue to identify and characterize the sensitizing potential of food proteins and to find a way to prevent such hypersensitivity. Ovalbumin is a major allergen in hen egg white that causes IgE□mediated food allergic reactions in children. Five distinct regions were found to contain dominant allergic IgE epitopes, these being L38T49, D95A102, E191V200, V243E248 and G251N260.

Ovalbumin (OVA) is widely used in allergy research. OVA peptide 323-339 has been reported to be responsible for 25–35% of isolated BALB/c mouse T-cell response to intact OVA. Several ovalbumin (OVA) peptides (OVA257-264, class I (Kb)-restricted peptide epitope; OVA323-339, An H-2b-restricted OVA class II epitope 4) have been used for studies of IgE response, CD4 T cells response, immediate cutaneous hypersensitivity and airways responsiveness (AR). OVA 323-339 induced similar lung inflammation. Interestingly, significant serum total IgE and OVA-specific IgE were observed in OVA mice when compared to saline control. OVA 323-339 mice showed higher serum OVA-specific IgE, OVA 323-339-specific IgE, IL-4 and lower IFN-γ similar to OVA mice. The proliferative response to OVA was found in cultured splenocytes of both OVA and OVA 323-339 mice, while the similar proliferative response to OVA 323-339 was only observed in the splenocytes of OVA 323-339-sensitized and challenged mice. Although OVA 323-339 induced a Th2-like response in the mouse model as did OVA, OVA 323-339 has clearly limited immunogenic potency to activate OVA-sensitized and challenged mice splenocytes, unlike OVA..

References:

Burleson SCM (2011) *Am. J. Respir. Crit. Care Med.,* 183: A2878, Sun LZ (2010) 71, 329–335;
Sung SJ (2001) J. Immunol. 166, 1261-1271, Mine Y (2003) Prot. Eng. 16, 747-752

All peptides are for in vitro research use only.

Please consult “Frequently asked questions” section at our website for Guidance on storage and solubility of the peptides. http://www.4adi.com/commerce/info/showpage.jsp?page_id=1088&category_id=2427

Related Items

Catalog#	ProdDescription
SP-51023-1	OVA (323-339) peptide [Ile-Ser-Gln-Ala-Val-His-Ala-Ala-His-Ala-Glu-Ile-Asn-Glu-Ala-Gly-Arg-OH; MW: 1773.9]
SP-53698-1	Ovalbumin (257-264) antigen peptide [Ser-Ile-Ile-Asn-Phe-Glu-Lys-Leu-OH; MW: 963.2]
SP-70422-1	OVA Peptide (AA: Ile-Ser-Gln-Ala-Val-His-Ala-Ala-His-Ala-Glu-Ile-Asn-Glu-Ala-Gly-Arg-NH2) (MW: 1773)
600-100-OGG	Mouse Anti-Ovalbumin Ig's (total (A+G+M) ELISA Kit, 96 tests, Quantitative
600-105-OGG	Mouse Anti-Ovalbumin IgG (IgG specific) ELISA Kit, 96 tests, Quantitative
600-110-OG1	Mouse Anti-Ovalbumin IgG1 ELISA Kit, 96 tests, Quantitative
600-120-O2A	Mouse Anti-Ovalbumin IgG2a ELISA Kit, 96 tests, Quantitative
600-130-O2B	Mouse Anti-Ovalbumin IgG2b ELISA Kit, 96 tests, Quantitative
600-140-OG3	Mouse Anti-Ovalbumin IgG3 ELISA Kit, 96 tests, Quantitative
600-150-OGA	Mouse Anti-Ovalbumin IgA ELISA Kit, 96 tests, Quantitative
600-165-OGE	Mouse Anti-Ovalbumin IgE ELISA Kit, 96 tests, Quantitative
600-170-OGM	Mouse Anti-Ovalbumin IgM ELISA Kit, 96 tests, Quantitative

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