

Natural Amb a 1

Product Code: NA-AAR1-1

Allergen:	nAmb a 1 (<i>Ambrosia artemisiifolia</i> allergen 1)
Lot No:	XXXXX
Source:	Short ragweed pollen (<i>Ambrosia artemisiifolia</i>)
Mol. Wt:	38-40 kDa
Purification:	From delipidated short ragweed extract by multi-step chromatography. Purity > 95 % by silver stained SDS-PAGE
Concentration:	See product insert.
Formulation:	Preservative-free and carrier-free in phosphate buffered saline, pH 7.4. Sterile filtered.
Storage:	Store at -20°C
Note:	(1) Natural Amb a 1 undergoes proteolysis during purification and is cleaved into two non-covalently associated chains of ~25 kD (α chain) and 16 kD (β -chain). (2) Avoid repeated Freeze/Thaw cycles.



nAmb a 1

Allergens are provided for research and commercial use in vitro:
Not for human in vivo or therapeutic use.

REFERENCES:

1. Jahn-Schmid B, Wopfner N, Hubinger G, Asero R, Ebner C, Ferreira F, Bohle B. The T-cell response to Amb a 1 is characterized by 3 dominant epitopes and multiple MHC restriction elements. *J Allergy Clin Immunol* 2010; 126(5):1068-1071.
2. Rafnar T, Griffith IJ, Kuo MC, Bond JF, Rogers BL, Klapper DG. Cloning of Amb a I (antigen E), the major allergen family of short ragweed pollen. *J Biol Chem* 1991; 266(2):1229-1236.
3. Wopfner N, Bauer R, Thalhamer J, Ferreira F, Chapman M. Immunologic analysis of monoclonal and immunoglobulin E antibody epitopes on natural and recombinant Amb a 1. *Clin Exp Allergy* 2008; 38(1):219-226.
4. King TP, Norman PS. Isolation of allergens from ragweed pollen. *Biochemistry* 1962; 1:709-720.