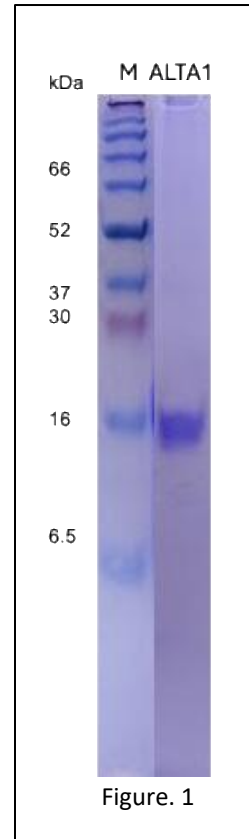


Recombinant *Alternaria alternata* Allergen, Alt a 1 (ALTA1)

Catalog # 5004

For Research Use Only - Not Human or Therapeutic Use

DESCRIPTION:	<p>Recombinant Alt a 1 from <i>Alternaria alternata</i>, ALTA1 protein</p> <p>The fungus <i>Alternaria alternata</i> (<i>A. alternata</i>) is a major cause of fungal allergic disease. Its primary allergen, Alt a 1, elicits an IgE antibody response in roughly 80% of patients allergic to <i>Alternaria</i> species. Natural Alt-a1 is a 30-kDa dimer linked by a disulfide bond consisting of two 15-16 kDa monomers (Figure. 1) (1).</p> <p>Recombinant Alt a 1 has been used to measure patient IgE and IgG antibody responses. It also elicits skin prick reactivity similar to that induced by the native protein or crude <i>A. alternata</i> extract. Therefore, it is a reliable tool for evaluating <i>A. alternata</i> sensitization (2)</p>
APPLICATION:	ELISA and Western Blot. It can also be used as an allergen to study allergic diseases in experimental animals or <i>in vitro</i> experiments.
QUANTITY:	100 µg (the concentration and volume will vary by batch or lot)
FORM:	Solution in 50% glycerol in 0.1M Tris-HCl, pH 8.0, 0.5M NaCl
SOURCE:	<i>E. coli</i>
TAG INFORMATION:	N-terminal 6xHis-tagged
MOLECULAR WEIGHT:	18 kDa (Figure 1. 15% SDS-PAGE under reducing conditions)
SEQUENCE	19-157aa (UniProt No. P79085)



APLESRQDTASSPVTTEGDYVWKISEFYGRKPEGTYYNLSLGFNIKATNGGTLDFTCQAQADK
LEDHKWYSCGENSFMDFSFSDRSGLLLKQKVSDITYVATATLPNYCRAGGNGPKDFVCC
GVADAYITLVLPKSS

STORAGE: Store at -20°C. Do not allow the product to remain at 4°C or room temperature for extended periods of time.

STABILITY: 1 year

- REFERENCES:
- [M. J. Deards, A. E. Montague, Purification and characterisation of a major allergen of *Alternaria alternata*. *Mol. Immunol.* **28**, 409–415 \(1991\).](#)
 - [L. D. Vailes, M. S. Perzanowski, L. M. Wheatley, T. A. Platts-Mills, M. D. Chapman, IgE and IgG antibody responses to recombinant Alt a 1 as a marker of sensitization to *Alternaria* in asthma and atopic dermatitis. *Clin. Exp. Allergy* **31**, 1891–1895 \(2001\).](#)