



Product Data Sheet

Recombinant purified Alt a2 Allergen (enolase from *Alternaria alternata* 1)

Cat# ALTA25-R-100

Size: 100 ug

Protein name Enolase
Synonyms EC 4.2.1.11

Description

Alt a 2 (Alt a 6 according to the effective allergen nomenclature) is a lyophilized, recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods.

Protein accession# EMBL: U82437

MW: ~47,382 Dalton

Purity: > 98%

Concn: 1 mg/ml (lot sp concn specified on the vial)

Quality control:

Purity has been determined by SDS-PAGE and staining with Coomassie Brilliant Blue R-250. Alt a 2 (Alt a 6) Lot# 02 tested positive in an IgE-Immunoblot with a standardized pool of human Alt a 2 (Alt a 6)-reactive sera.

Enolase activity can be restored by dissolving the lyophilized protein to a concentration of 1 mg/ml in 4.5 M urea and dialyzing it over night against 10mM Na₂HPO₄ pH 7.5, containing 2mM β-Mercaptoethanole, and 2mM Mg²⁺. No enzymatic activity was observed after reconstitution in water/β-Mercaptoethanole.

Form and Storage

When stored at -20°C the quality of the material will be maintained for several years. However, for short periods (max. 3 weeks) the lyophilized product may be kept at room temperature. After reconstitution store at -20°C. Avoid repeated freezing/thawing.

Suggested Uses / Reconstitution

The material can be reconstituted with distilled water (or equivalent) or dilute buffers. Addition of 1-2 mM β-Mercaptoethanol is recommended. If reconstituted to a concentration of 1 mg/ml, the phosphate buffer concentration will be 2 mM (pH 7,4). The product is soluble to more than 95% at a concentration of 2 mg/ml

Country of Origin: USA

MSDS:

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, diagnostic, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

References: Simon-Nobbe B. (2000) *J. Allergy Clin. Immunol.* 106:887-895(2000).

This product is for in vitro research use only.
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