

Mal d 1.8

(*Malus domestica*, apple allergen 1)

For research purpose only.

PRODUCT DESCRIPTION:

Access:EMBL:AJ417551/Swissprot: Q9SYW3

MW = 17,492 Dalton (according to sequence from database without Methionine)

Mol. Ext. Coeff.: 14,500; 1 mg/ml $A_{278}=0.83$

pI = 5.7

Lot#: 03

Amount: 1 mg

Quality: Purity > 98%.

Reacts with IgE from Mal d1.8 reactive human serum

General information:

BIOMAY Mal d 1.8 is a recombinant protein with IgE-binding capacity. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods, and lyophilized from 20 mM NH_4HCO_3 (volatil)/1% sucrose.

Reconstitution:

To achieve satisfactory solubilization of at least 95% we recommend to use the following procedure: Reconstitute to a concentration of 1-2 mg/ml with water or buffer pH 7.0-7.5 (preferably containing 2 mM β -mercaptoethanol). Total salt concentration in the buffer should not exceed 20 mM. Thorough agitating during dissolution is essential.

Storage:

When stored at -20°C the quality of the material will be maintained for several years (Exp.2009-01). 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.

Quality control:

Purity has been determined on SDS-PAGE gels stained with Coomassie Brilliant Blue R-250.

Mal d 1.8 Lot# 02 tested positive in an IgE-Immunoblot with a standardized pool of human Mal d 1.8-reactive sera.

* The mol.ext. coeff. was calculated from the DNA-derived protein sequence as described by Gill, S.C. and by Hippel, P.H. (1989), Analytical Biochemistry **182**, 319-326.