

Art v 1a-GAM

(*Artemisia vulgaris*, mugwort pollen allergen 1, Isoform a – His tagged
digested with r-TEV Protease)

For research purpose only.

PRODUCT DESCRIPTION:

Access # for natural precursor: EMBL:

AF493943 SP: 84ZX5

Mw = 11059.3 Dalton (incl. GAM)

Mol. Ext. Coeff.: 8730; 1 mg/ml $A_{276}=0.789^*$

pI = 8.16

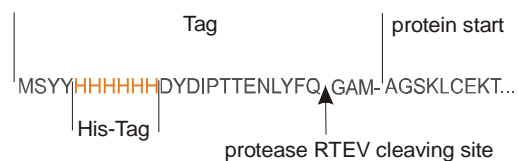
Lot#: 01

Amount: 1 mg

Quality: Purity > 95%.

Reacts with IgE from Art v1 reactive human serum

General information:



BIOMAY Art v 1a-GAM is the recombinant protein described above digested with r-TEV Protease. N-Terminal Sequencing showed, that after digestion app 50% of the protein is cleaved after the GAM extension at the correct start of the protein. It was produced by heterologous expression in *E. coli*, purified by conventional biochemical methods, and lyophilized from 5 mM PO_4 buffer, pH 7.5.

Reconstitution:

The material can be reconstituted with distilled water (or equivalent) or dilute buffers. Thorough agitating during dissolution is essential. Do not

use salt concentrations exceeding 20 mM to dissolve the lyophilized material. Salt may be added after dissolution. If reconstituted to 1 mg/ml the product will be soluble to at least 98% and the PO_4 concentration will be 3.5 mM.

Storage:

When stored at $-20^\circ C$ 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 $-20^\circ C$. Avoid repeated freezing/thawing.

Quality control:

Purity has been determined on SDS-PAGE gels stained with Coomassie Brilliant Blue R-250. Art v 1a - GAM Lot# 01 tested positive in an IgE-Immunoblot with a standardized pool of human Art v 1-reactive sera.

* The mol.ext.coeff. was calculated from the DNA-derived protein sequence (assuming 50% of cystines are half cystines) as described by Gill, S.C. and by Hippel, P.H. (1989), Analytical Biochemistry **182**, 319-326.