

SUPPORTING INFORMATION DESCRIPTION

Supporting Information 1

Sequence of mASAL

**MARNLLTNGEGLYAGQSLDVEQYKFIMQDDCNLVLYEYSTP
IWAENTGVTGKNGCRAVMQRDGNFVVYDVNGRPVWASNSV
RGNGNYILVLQKDRNVVIYDNSNNTIWSTGT**

Supporting Information 2

Table showing clinical characteristics of patients and *in vitro* IgE specific ELISA result against ovalbumin.

Patient No	Age(year)/Sex ^a	Symptoms	Specific IgE P/N ^b value (Ovalbumin)
Patient -1	34/M	AR+BA	3.51
Patient -2	28/M	AR	1.53
Patient -3	52/F	BA	3.12
Patient -4	21/F	BA	2.37
Patient -5	27/M	AR+BA+D	1.96
Patient -6	29/M	BA	1.97
Patient -7	25/M	BA+D	2.86
Patient -8	35/F	AR+BA	3.45
Patient -9	23/M	AR+BA	3.91
Patient -10	39/F	AR	2.85

^a M,male; F,female;IgE, immunoglobulin E; AR ,Allergic rhinitis; BA, bronchial asthma; D, dermatitis ^b IgE-reactive proteins shows P/N value > 3.5

Supporting Information 3

Figure showing the cleavage of mASAL with Pepsin.

← → ↺

web.expasy.org/cgi-bin/peptide_cutter/peptidecutter.pl

 **ExpASY**
Bioinformatics Resource Portal

PeptideCutter

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The sequence to investigate:

102030405060

MARNLLTNGE GLYAGQSLDV EQYKFIMQDD CNLVLYEYST PIWAFNIGVT GKNGCRAVMQ

708090100110

RDGNFVVYDV NGRPFVWASNS VRGNGNYILV LQKDRNVVIY DNSNNTIWST GT

The sequence is 112 amino acids long.

[Available enzymes](#)

The enzyme(s) that you have chosen:

- Pepsin (pH1.3)

You have chosen to display all possible cleaving enzymes.

These enzymes cleave the sequence:

Name of enzyme	No. of cleavages	Positions of cleavage sites
Pepsin (pH1.3)	38	4 6 11 12 12 13 17 18 22 23 24 25 32 33 34 35 35 36 37 38 43 44 45 64 65 67 68 76 86 87 88 89 90 91 99 100 107 108