

peptidase 1 (mite)

Cat. No. EXWM-4241

Lot. No. (See product label)

Introduction

Description

This enzyme, derived from the house dust mite, is a major component of the allergic immune response. The substrate specificity of this enzyme is not altogether clear. It cleaves the low-affinity IgE receptor CD23 at Glu298↓Ser299 and Ser155↓Ser156. It also cleaves the pulmonary structural proteins occludin and claudin at Leu↓Leu, Asp↓Leu and at Gly↓Thr bonds. It can also cleave the α subunit of the interleukin-2 (IL-2) receptor (CD25). Using a positional scanning combinatorial library, it was found that the major substrate-specificity determinant is for Ala in the P2 position. The enzyme shows only a slight preference for basic amino acids in the P1 and P3 positions and a preference for aliphatic amino acids such as Ile, Pro, Val, Leu and norleucine in the P4 position. Belongs in peptidase family C1A.

Synonyms

allergen Der f 1; allergen Der p 1; antigen Der p 1; antigen Eur m 1; antigen Pso o 1; major mite fecal allergen Der p 1; Der p 1; Der f 1; Eur m 1; endopeptidase 1 (mite)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.4.22.65

Reaction

Broad endopeptidase specificity

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.