

## Active Native Human CMA1 protein

**Cat. No.** CMA1-35H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Native Human CMA1 was isolated from Human skin.                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Human Skin                                                                                                                                                                                                                                                    |
| <b>Description</b>      | Chymase, found primarily in mast cells, is a serine protease related to granzyme B and cathepsin G. Because of its involvement in many processes such as inflammation and processing of cytokines and hormones, it is an important target for drug discovery. |
| <b>Form</b>             | Liquid. In 50mM sodium acetate, pH 5.0, containing 1M sodium chloride.                                                                                                                                                                                        |
| <b>Bio-activity</b>     | XX U/mg. One U=0.1 $\mu$ mol/min at pH 7.8 and 25 centigrade, using the substrate N-benzoyl-L-tyrosine ethyl ester (BTEE).                                                                                                                                    |
| <b>Molecular Mass</b>   | ~30kDa (SDS-PAGE)                                                                                                                                                                                                                                             |
| <b>Purity</b>           | $\geq$ 95% (SDS-PAGE). Although this is in highly purified form, and the source material tested negative for syphilis, HIV-1/HIV-2, Hepatitis B, Hepatitis C, and HTLV-1, handle this product with all due precautions.                                       |
| <b>Applications</b>     | Useful for the study enzyme kinetics, cleave target substrates, and screen for inhibitors.                                                                                                                                                                    |

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**Stability**

The enzyme is stable on ice for at least several hours. However, it is recommended that thawing and dilution of the enzyme be done within as short a time as possible before start of the assay. NOTE: When stored under the above conditions, this enzyme is stable at the concentration supplied, in its current storage buffer. Procedures such as dilution of the enzyme followed by refreezing could lead to loss of activity.

**Storage**

Long Term Storage: -20 centigrade. Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -20 centigrade.

**GENE INFORMATION**
**Gene Name**

CMA1 chymase 1, mast cell [ Homo sapiens ]

**Official Symbol**

CMA1

**Synonyms**

CMA1; chymase 1, mast cell; chymase; alpha-chymase; chymase, heart; chymase, mast cell; mast cell protease I; chymase 1 preproprotein transcript E; chymase 1 preproprotein transcript I; CYH; MCT1; MGC119890; MGC119891;

**Gene ID**

1215

**mRNA Refseq**

NM\_001836

**Protein Refseq**

NP\_001827

**MIM**

118938

**UniProt ID**

P23946

**Chromosome**

14

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| Location |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pathway  | ACE Inhibitor Pathway, organism-specific biosystem; Activation of Matrix Metalloproteinases, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Renin-angiotensin system, organism-specific biosystem; Renin-angiotensin system, conserved biosystem; Signal Transduction, organism-specific biosystem; |
| Function | peptidase activity; serine-type endopeptidase activity; serine-type endopeptidase activity; serine-type peptidase activity;                                                                                                                                                                                                                                                                                             |

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