

Active Native Human CMA1 protein

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

SPECIFICATION

Product Overview	Native Human CMA1 was isolated from Human skin.
Species	Human
Source	Human Skin
Description	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.
Form	Liquid. In 50mM sodium acetate, pH 5.0, containing 1M sodium chloride.
Bio-activity	XX U/mg. One U=0.1 μ mol/min at pH 7.8 and 25 centigrade, using the substrate N-benzoyl-L-tyrosine ethyl ester (BTEE).
Molecular Mass	~30kDa (SDS-PAGE)
Purity	$\geq$ 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.
Applications	Useful for the study enzyme kinetics, cleave target substrates, and screen for inhibitors.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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