Active Full Length Recombinant Human CMA1 protein, His-tagged

Cat. No. CMA1-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CMA1(Met1-Asn247) fused with His tag at C-terminal was expressed in NS0.
Species	Human
Source	Mammalian Cells
ProteinLength	1-247 aa
Description	Chymases are a group of chymotrypsin-like serine proteases secreted by mast cells. They are synthesized as inactive precursors containing a 2-residue propeptide, which needs to be removed by dipeptidyl peptidase I/cathepsin C for the enzymatic activity. Human Chymase encoded by the CMA1 gene is known to be involved in hypertention and heart failure through its ability to convert angiotensin I (Ang I) to angiotensin II (Ang II), which plays a key role in the regulation of arterial pressure. In addition, it is also important in physiological and pathological conditions including inflammation, fibrosis and processing of cytokines. Therefore, designing a specific inhibitor for Chymase activity has been a pharmacologic strategy to develop therapeutic agents.
Predicted N Terminal	Gly20
Form	Supplied as a 0.2 μm filtered solution in HEPES and NaCl.
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, SUC-Ala-Ala-Pro-

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

	Phe-AMC. The specific activity is >80 pmol/min/g, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 27 kDa; SDS-PAGE: 38 kDa, reducing conditions.
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Shipping	The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

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

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Protein Refseq	NP_001827
MIM	118938
UniProt ID	P23946
Chromosome Location	14
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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