

[Go to Product page](#)

## Datasheet for ABIN7195123 CMA1 Protein (His tag)

### Overview

Quantity:	50 µg
Target:	CMA1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CMA1 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human CMA1/Chymase 1 Protein (His Tag)
Sequence:	Met 1-Asn 247
Characteristics:	A DNA sequence encoding the human CMA1 (P23946) (Met 1-Asn 247) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

### Target Details

Target:	CMA1
Alternative Name:	CMA1/Chymase 1 ( <a href="#">CMA1 Products</a> )
Background:	Background: Chymotrypsin C (abbreviated for CTRC), also known as caldecrin or elastase4, is a digestive enzyme of the peptidase S1 family. This enzyme is synthesized as an inactivate chymotrypsinogen. On cleavage by trypsin into two parts that activate each other by removing

## Target Details

two small peptides in a trans-proteolysis, chymotrypsin C produced. N-linked glycosylation of human CTRC is required for efficient folding and secretion, however, the N-linked glycan is unimportant for enzyme activity or inhibitor binding. It has been proposed that CTRC is a key regulator of digestive zymogen activation and a physiological co-activator of digestive carboxypeptidases proCPA1 and proCPA2. Mutations that abolish activity or secretion of CTRC increase the risk for chronic pancreatitis. It's speculated that CTRC might regulate pancreatic cancer cell migration in relation to cytokeratin 18 expression. The pancreatic cancer cell migration ability was downregulated in pancreatic cancer Aspc-1 cells that overexpressed CTRC, whereas the cell migration ability was upregulated in Aspc-1 cells in which CTRC was suppressed.

Synonym: chymase;CYH;MCT1

Molecular Weight: 26.6 kDa

UniProt: [P23946](#)

Pathways: [ACE Inhibitor Pathway](#), [Peptide Hormone Metabolism](#), [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [Carbohydrate Homeostasis](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.