CPN1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	CPN1, Lysate
Full Product Name	Human CPN1 Protein Lysate
Product Gene Name	CPN1 lysate
Product Synonym Names	CPN1; CPN; SCPN
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	50kDa
OMIM	212070
3D Structure	ModBase 3D Structure for P15169
Related Product Information for CPN1 lysate	Human CPN1 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of CPN1 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CPN1 purchase	MBS139846 is a lysate targeting CPN1. Also known as Human CPN1 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPN1. It may not necessarily be applicable to this product.

NCBI GI #	4503011
NCBI GeneID	1369
NCBI Accession #	NP_001299
UniProt Primary Accession #	P15169
UniProt Related Accession #	P15169
GenBank Nucleotide #	NM_001308
NCBI Official Full Name	carboxypeptidase N catalytic chain
NCBI Official Synonym Full Names	carboxypeptidase N subunit 1
NCBI Official Symbol	CPN1
NCBI Official Synonym Symbols	CPN; SCPN
UniProt Protein Name	Carboxypeptidase N catalytic chain
UniProt Synonym Protein Names	Anaphylatoxin inactivator; Arginine carboxypeptidase; Carboxypeptidase N polypeptide 1; Carboxypeptidase N small subunit; Kininase-1; Lysine carboxypeptidase; Plasma carboxypeptidase B; Serum carboxypeptidase N

Protein Family	Carboxypeptidase
UniProt Gene Name	CPN1
UniProt Synonym Gene Names	ACBP; CPN; SCPN
UniProt Entry Name	CBPN_HUMAN
NCBI Protein Information	carboxypeptidase N catalytic chain
NCBI Summary for CPN1	Carboxypeptidase N is a plasma metallo-protease that cleaves basic amino acids from the C terminal of peptides and proteins. The enzyme is important in the regulation of peptides like kinins and anaphylatoxins, and has also been known as kininase-1 and anaphylatoxin inactivator. This enzyme is a tetramer comprised of two identical regulatory subunits and two identical catalytic subunits; this gene encodes the catalytic subunit. Mutations in this gene can be associated with angioedema or chronic urticaria resulting from carboxypeptidase N deficiency. [provided by RefSeq, Jul 2008]
UniProt Comments for CPN1	CPN1: Protects the body from potent vasoactive and inflammatory peptides containing C-terminal Arg or Lys (such as kinins or anaphylatoxins) which are released into the circulation. Defects in CPN1 are the cause of carboxypeptidase N deficiency (CPND). Patients affected present some combination of angioedema or chronic urticaria, as well as hay fever or astma, and have also slightly depressed serum carboxy peptidase N, suggestive of autosomal recessive inheritance of this disorder. Belongs to the peptidase M14 family. Protein type: EC 3.4.17.3; Secreted, signal peptide; Protease; Secreted Chromosomal Location of Human Ortholog: 10q24.2 Cellular Component: extracellular space Molecular Function: zinc ion binding; metallocarboxypeptidase activity Biological Process: response to glucocorticoid stimulus; proteolysis Disease: Carboxypeptidase N Deficiency
Research Articles on CPN1	**1.** CPN binds to fibrinogen and is present in a fibrin clot prepared from plasma.
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