

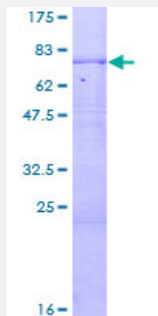
Full-Length

CPN1 (Human) Recombinant Protein (P01)

Catalog # H00001369-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CPN1 full-length ORF (NP_001299.1, 1 a.a. - 458 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSDLLSVFLHLLLFKLVAPVTFRHHRYDDLVRTLYKVQNECPGITRVYSIGRSVEGRHLVLEFSD
HPGIHEPLEPEVKYVGNMHGNEALGRELMQLSEFLCEEFRNRNQIVQLIQDTRIHLPSMNPBGY
EVAAAQGNPKPGYLVGRNNANGVDLNRNFPDLNTYTYNEKYGGPNHHLPLPDNWKSSQVEPETR
AVIRWMHSFNFVLSANLHGGAVVANYPYDKSFEHRVVRGVRRTASTPTPDDKLFQKLAKVYSYAH
GWMFQGWNCGDYFPDGTNGASWYSLSKGMQDFNYLHTNCFEITLSCDKFPPEEELQREWL
GNREALIQFLEQVHQGIKGMVLDENYNLANAVISVSGINHDTVSGDHGDYFRLLLPGIYTVSATAP
GYDPETVTVTVGPAEPTLVNFHLKRSIPQVSPVRRAPSRRHGVRKVPQARKKEMEMRQLQR
GPA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

78.7

Interspecies Antigen Sequence

Mouse (83); Rat (83)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CPN1

Entrez GeneID	1369
GeneBank Accession#	NM_001308.1
Protein Accession#	NP_001299.1
Gene Name	CPN1
Gene Alias	CPN, FLJ40792, SCPN
Gene Description	carboxypeptidase N, polypeptide 1
Omim ID	212070 603103
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	OTTHUMP00000020269 anaphylatoxin inactivator arginine carboxypeptidase carboxypeptidase N catalytic subunit carboxypeptidase N polypeptide 1 50 kD carboxypeptidase N small subunit carboxypeptidase N, polypeptide 1, 50kD kininase I lysine carboxypeptidase

Disease

- [Alzheimer Disease](#)
- [Disease Progression](#)
- [Fatty Liver](#)
- [Genetic Predisposition to Disease](#)
- [Metabolic Syndrome X](#)