Carboxypeptidase A4 (CPA4) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Carboxypeptidase A4 (CPA4), Recombinant Protein
Full Product Name	Recombinant Human Carboxypeptidase A4 (CPA4)
Product Gene Name	CPA4 recombinant protein
Product Synonym Gene Name	CPA4
Sequence	SSNNFNYGAY HSLEAIYHEM DNIAADFPDL ARRVKIGHSF ENRPMYVLKF STGKGVRRPA VWLNAGIHSR EWISQATAIW TARKIVSDYQ RDPAITSILE KMDIFLLPVA NPDGYVYTQT QNRLWRKTRS RNPGSSCIGA DPNRNWNASF AGKGASDNPC SEVYHGPHAN SEVEVKSVVD FIQKHGNFKG FIDLHSYSQL LMYPYGYSVK KAPDAEELDK VARLAAKALA SVSGTEYQVG PTCTTVYPAS GSSIDWAYDN GIKFAFTFEL RDTGTYGFLL PANQIIPTAE ETWLGLKTIM EHVRDNLY
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	43,570 Da
Sequence Positions	114-421, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	607635
3D Structure	ModBase 3D Structure for Q9UI42
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CPA4 recombinant protein	This gene is a member of the carboxypeptidase A B subfamily, and it is located in a cluster with three other family members on chromosome 7. Carboxypeptidases are zinc-containing exopeptidases that catalyze the release of carboxy-terminal amino acids, and are synthesized as zymogens that are activated by proteolytic cleavage. This gene could be involved in the histone hyperacetylation pathway. It is imprinted and may be a strong candidate gene for prostate cancer aggressiveness.
Other Notes	Small volumes of CPA4 recombinant protein 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 CPA4 purchase	MBS1468998 is a recombinant protein targeting CPA4. Also known as Recombinant Human Carboxypeptidase A4 (CPA4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPA4. It may not necessarily be applicable to this product.

NCBI GI #	254540196
NCBI GeneID	51200
NCBI Accession #	NP_001156918.1
UniProt Primary Accession #	Q9UI42
UniProt Secondary Accession #	Q86UY9; B7Z576
UniProt Related Accession #	Q9UI42
GenBank Nucleotide #	NM_001163446.1
NCBI Official Full Name	carboxypeptidase A4 isoform 2
NCBI Official Synonym Full Names	carboxypeptidase A4
NCBI Official Symbol	CPA4
NCBI Official Synonym Symbols	CPA3
UniProt Protein Name	Carboxypeptidase A4
UniProt Synonym Protein Names	Carboxypeptidase A3
Protein Family	Carboxypeptidase
UniProt Gene Name	CPA4
UniProt Synonym Gene Names	CPA3
NCBI Protein Information	carboxypeptidase A4
NCBI Summary for CPA4	This gene is a member of the carboxypeptidase A/B subfamily, and it is located in a cluster with three other family members on chromosome 7. Carboxypeptidases are zinc-containing exopeptidases that catalyze the release of carboxy-terminal amino acids, and are synthesized as zymogens that are activated by proteolytic cleavage. This gene could be involved in the histone hyperacetylation pathway. It is imprinted and may be a strong candidate gene for prostate cancer aggressiveness. [provided by RefSeq, Jul 2008]
UniProt Comments for CPA4	Metalloprotease that could be involved in the histone hyperacetylation pathway (PubMed:10383164). Releases a C-terminal amino acid, with preference for -Phe, -Leu, -Ile, -Met, -Tyr and -Val (PubMed:20385563).
Research Articles on CPA4	**1.** Serum CPA4 concentration combined with lymph node involvement may be used as accurate predictors of liver metastasis in colorectal cancer.
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