CPNE1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CPNE1, Recombinant Protein
Full Product Name	Recombinant Human CPNE1 Protein
Product Gene Name	CPNE1 recombinant protein
Product Synonym Names	CPN1; Copine-1; Copine I
Sequence	MGSSHHHHHH SSGLVPRGSH MAHCVTLVQL SISCDHLIDK DIGSKSDPLC VLLQDVGGGS WAELGRTERV RNCSSPEFSK TLQLEYRFET VQKLRFGIYD IDNKTPELRD DDFLGGAECS LGQIVSSQVL TLPLMLKPGK PAGRGTITVS AQELKDNRVV TMEVEARNLD KKDFLGKSDP FLEFFRQGDG KWHLVYRSEV IKNNLNPTWK RFSVPVQHFC GGNPSTPIQV QCSDYDSDGS HDLIGTFHTS LAQLQAVPAE FECIHPEKQQ KKKSYKNSGT IRVKICRVET EYSFLDYVMG GCQINFTVGV DFTGSNGDPS SPDSLHYLSP TGVNEYLMAL WSVGSVVQDY DSDKLFPAFG FGAQVPPDWQ VSHEFALNFN PSNPYCAGIQ GIVDAYRQAL PQVRLYGPTN FAPIINHVAR FAAQAAHQGT ASQYFMLLLL TDGAVTDVEA TREAVVRASN LPMSVIIVGV GGADFEAMEQ LDADGGPLHT RSGQAAARDI VQFVPYRRFQ NAPREALAQT VLAEVPTQLV SYFRAQGWAP LKPLPPSAKD PAQAPQALEH HHHHH
Host	E Coli
Species Reactivity	Human
Form/Format	Lyophilized from a 0.2 muM filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Purity/Purification	Greater than 95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
Molecular Weight	59,059 Da
OMIM	U83246 mRNA
3D Structure	ModBase 3D Structure for Q99829
Endotoxin	Less than 0.1 ng/mug (1 IEU/mug) as determined by LAL test.
Directions for Use	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 mug/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Applications Tested/Suitable for CPNE1 recombinant protein	ELISA (EIA),Western Blot (WB), SDS-PAGE, Mass Spectrometry (MS)
Related Product Information for CPNE1 recombinant protein	Recombinant Human CPNE1 Protein is produced by our E Coli expression system and the target gene encoding Met1-Ala537 is expressed with a 6His tag at the N-terminus, 6His tag at the C-terminus.
Other Notes	Small volumes of CPNE1 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 CPNE1 purchase	MBS8248828 is a recombinant protein targeting CPNE1. Also known as Recombinant Human CPNE1 Protein. Reactive in Human. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CPNE1. It may not necessarily be applicable to this product.

NCBI GI #	197333761
NCBI GeneID	8904
NCBI Accession #	NP_003906.2
UniProt Primary Accession #	Q99829
UniProt Secondary Accession #	Q6IBL3; Q9H243; Q9NTZ7; E1P5Q4
UniProt Related Accession #	Q99829
GenBank Nucleotide #	NM_003915.5
NCBI Official Full Name	copine-1 isoform b
NCBI Official Synonym Full Names	copine 1
NCBI Official Symbol	CPNE1
NCBI Official Synonym Symbols	CPN1; COPN1
UniProt Protein Name	Copine-1
UniProt Synonym Protein Names	Chromobindin 17
Protein Family	Copine
UniProt Gene Name	CPNE1
UniProt Entry Name	CPNE1_HUMAN
NCBI Protein Information	copine-1
NCBI Summary for CPNE1	Calcium-dependent membrane-binding proteins may regulate molecular events at the interface of the cell membrane and cytoplasm. This gene encodes a calcium-dependent protein that also contains two N-terminal type II C2 domains and an integrin A domain-like sequence in the C-terminus. However, the encoded protein does not contain a predicted signal sequence or transmembrane domains. This protein has a broad tissue distribution and it may function in membrane trafficking. This gene and the gene for RNA binding motif protein 12 overlap at map location 20q11.21. Alternate splicing results in multiple transcript variants encoding different proteins. [provided by RefSeq, Aug 2008]
UniProt Comments for CPNE1	CPNE1: May function in membrane trafficking. Exhibits calcium- dependent phospholipid binding properties. Belongs to the copine family. Protein type: Lipid-binding Chromosomal Location of Human Ortholog: 20q11.22 Cellular Component: cytoplasm; cytosol; membrane; nucleus; plasma membrane Molecular Function: calcium ion binding; calcium-dependent phospholipid binding; endopeptidase activity; NF-kappaB binding; phosphatidylserine binding; protein binding; protein homodimerization activity; transporter activity Biological Process: glycerophospholipid biosynthetic process; lipid metabolic process; negative regulation of DNA binding; positive regulation of neuron differentiation; positive regulation of protein kinase B signaling cascade; proteolysis; regulation of I-kappaB kinase/NF-kappaB cascade; vesicle-mediated transport
Research Articles on CPNE1	**1.** CPNE1 shares a promoter and 5'UTR exons with RBM12. This genomic structure is conserved among multiple species.
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