

Ceruloplasmin (CP) Recombinant Protein | CP recombinant protein

Recombinant Human Ceruloplasmin (CP) Protein

CATALOG # AAA55952	HOST E. coli AA 807-1050 (P00450).	APPLICATIONS ELISA, Western Blot
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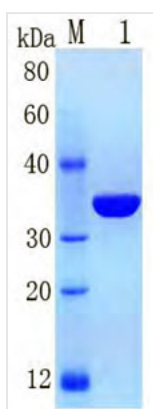
PRODUCT SYNONYMS

Ceruloplasmin (CP); Recombinant Human Ceruloplasmin (CP) Protein; CP2; CER; Caeruloplasmin; Ferroxidase; Oxygen Oxidoreductase; CP recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli AA 807-1050 (P00450).
Purity/Purification	> 90 % as determined by SDS-PAGE.
Form/Format	10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol.
Concentration	1.8 mg/mL (varies by lot)
Sequence	ILGPQLHADV GDKVKIIFKN MATRPYSIHA HGVQTESSTV TPTLPGETLT YVWKIPERSG AGTEDSACIP WAYYSTVDQV KDLYSGLIGP LIVCRRPYLK VFNPRRKLEF ALLFLVFDEN ESWYLDNLIK TYSDHPEKVN KDDEEFIESN KMHAINGRMF GNLQGLTMHV GDEVNWYLMG MGNEIDLHTV HFHGHSHFYK HRGVYSSDVF DIFPGTYQTL EMFPRTPGIW LLHCHVTDHI HAGM
Applicable Applications for CP recombinant protein	ELISA, WB (Western Blot)
Preparation and Storage	Storage: Store it under sterile conditions at -20°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. **Avoid repeated freeze-thaw cycles.** Stability: The recombinant protein is stable for up to 6 months from date of receipt at -80°C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CP recombinant protein	Background/Introduction: Ceruloplasmin (Cp) is a ferroxidase enzyme encoded by the CP gene in humans. Cp is the main copper-transporting protein in the blood, and also functions in iron metabolism. Cp is made in the liver and has 6 atoms of copper bound to it. Cp carries over 95% of the total copper in human plasma and has a copper-dependent oxidase activity. The enzyme causes oxidation of Fe2+ (ferrous iron) into Fe3+ (ferric iron), and as a result helps transport iron (in addition to transferrin) in the plasma. Low levels of Cp have been observed in patients with hepatic disease. Low Cp levels may be an indication of Aceruloplasminemia, copper deficiency, Wilson disease, Menkes disease, or an overdose of Vitamin C. High levels of Cp may be an indication of pregnancy, copper toxicity / zinc deficiency, lymphoma, angina, schizophrenia, acute and chronic inflammation, rheumatoid arthritis, Alzheimer's disease, or obsessive-compulsive disorder. Human Ceruloplasmin ELISA Kit is an enzyme immunoassay developed for the detection and quantitation of human Cp in plasma, serum, urine, cell or tissue lysate samples. The kit has a detection sensitivity limit of 2 ng/mL human Cp. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and unknown samples.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557485
NCBI GeneID	1356
NCBI Accession #	NP_000087.1
NCBI GenBank Nucleotide #	NM_000096.3
UniProt Accession #	P00450; Q14063; Q2PP18; Q9UKS4
Molecular Weight	Predicted MW: 35.4 kDa Observed MW: 36 kDa
NCBI Official Full Name	ceruloplasmin
NCBI Official Synonym Full Names	ceruloplasmin
NCBI Official Symbol	CP
NCBI Official Synonym Symbols	CP-2
NCBI Protein Information	ceruloplasmin
UniProt Protein Name	Ceruloplasmin
UniProt Gene Name	CP
UniProt Entry Name	CERU_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.