Recombinant Human CP, GST-tagged

Cat. No. CP-11507H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CP protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	194-446a.a.
Description	The protein encoded by this gene is a metalloprotein that binds most of the copper in plasma and is involved in the peroxidation of Fe(II)transferrin to Fe(III) transferrin. Mutations in this gene cause aceruloplasminemia, which results in iron accumulation and tissue damage, and is associated with diabetes and neurologic abnormalities. Two transcript variants, one protein-coding and the other not protein-coding, have been found for this gene.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	CP ceruloplasmin (ferroxidase) [Homo sapiens]

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	CP
Synonyms	CP; ceruloplasmin (ferroxidase); ceruloplasmin; CP-2;
Gene ID	1356
mRNA Refseq	NM_000096
Protein Refseq	NP_000087
MIM	117700
UniProt ID	P00450
Chromosome Location	3q23-q25
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metal ion SLC transporters, organism-specific biosystem; Porphyrin and chlorophyll metabolism, organism-specific biosystem; Porphyrin and chlorophyll metabolism, conserved biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem;
Function	chaperone binding; copper ion binding; ferroxidase activity; metal ion binding; oxidoreductase activity;

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