Native Human Ceruloplasmin (ferroxidase)

Cat. No. CP-5326H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native human CP was expressedin Human Plasma.
Species	Human
Source	Human Plasma
Description	Human CP is alsoknown as ferroxidase or iron(II):oxygen oxidoreductase. CP is an enzymesynthesized in the liver containing 8 atoms of copper in its structure.Although CP is often considered a copper transport protein, this is not itsprimary function, just as human hemoglobin is not a carrier of iron, althoughit contains iron. The main carrier for copper in the plasma of humans isalbumin. CP enzyme (ferroxidase) catalyzes the oxidation of ferrous iron (Fe2+)to ferric iron (Fe3+), therefore assisting in CP enzyme transportin the plasma in association with transferrin, which can only carry iron inthe ferric state.
Form	Lyophilized
Purity	>96% by SDS PAGE
Molecular Weight	134 kDa
Storage	Store at -20°C.
Pathways	HIF-1-alpha transcription factor network; Ironuptake and transport; Metal ion SLC transporters; Porphyrin and chlorophyllmetabolism; SLC-mediated transmembrane

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	transport; Transmembrane transport ofsmall molecules; Transport of glucose and other sugars

GENE INFORMATION

Gene Name	CP ceruloplasmin (ferroxidase) [Homo sapiens]
Official Symbol	CP
Synonyms	CP; ceruloplasmin(ferroxidase); CP-2; ceruloplasmin; Ceruloplasmin; Ferroxidase; OTTHUMP00000197026;OTTHUMP00000215840; OTTHUMP00000215841; EC1.16.3.1
Gene ID	1356
mRNA Refseq	NM_000096
Protein Refseq	NP_000087
MIM	117700
UniProt ID	P00450
Chromosome Location	3q23-q25
Function	chaperonebinding; copper ion binding; ferroxidase activity; metal ion binding; oxidoreductaseactivity

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