

Native Human Ceruloplasmin (ferroxidase)

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

SPECIFICATION

Product Overview	Native human CP was expressed in Human Plasma.
Species	Human
Source	Human Plasma
Description	Human CP is also known as ferroxidase or iron(II):oxygen oxidoreductase. CP is an enzyme synthesized in the liver containing 8 atoms of copper in its structure. Although CP is often considered a copper transport protein, this is not its primary function, just as human hemoglobin is not a carrier of iron, although it contains iron. The main carrier for copper in the plasma of humans is albumin. CP enzyme (ferroxidase) catalyzes the oxidation of ferrous iron (Fe ²⁺) to ferric iron (Fe ³⁺), therefore assisting in CP enzyme transport in the plasma in association with transferrin, which can only carry iron in the 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; Iron uptake and transport; Metal ion SLC transporters; Porphyrin and chlorophyll metabolism; SLC-mediated transmembrane

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transport; Transmembrane transport of small 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 chaperone binding; copper ion binding; ferroxidase activity; metal ion binding; oxidoreductase activity

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