

Native Rat Ceruloplasmin

Cat. No. Cp-048R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Rat Cp is an approximately 120 kDa monomeric serum protein that functions as a copper transporter. It is a positive acute phase reactant, the levels of which increase significantly in mice in response to inflammation, tissue injury and disease.
Species	Rat
Source	Rat Serum
Description	Cp (or caeruloplasmin) is a ferroxidase enzyme that in humans is encoded by the CP gene. Cp is the major copper-carrying protein in the blood, and in addition plays a role in iron metabolism. It was first described in 1948. Another protein, hephaestin, is noted for its homology to ceruloplasmin, and also participates in iron and probably copper metabolism.
Form	Liquid in 20 mM Tris HCl, pH 7.5 + 1 mM EDTA.
Purity	> 90% by SDS-PAGE
Concentration	> 0.5 mg/mg
Storage	Stored at -20°C. Avoid repeated freeze-thaw cycles.
Official Symbol	Cp
Pathways	Porphyrin and chlorophyll metabolism

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GENE INFORMATION

Gene Name	Cp ceruloplasmin [Rattus norvegicus]
Synonyms	Cp; ceruloplasmin;CERP; RATCERP; Ceruloplasmin; EC 1.16.3.1; Ferroxidase
Gene ID	24268
mRNA Refseq	NM_012532
Protein Refseq	NP_036664
UniProt ID	P13635
Chromosome Location	2q24
Function	chaperone binding;copper ion binding; ferroxidase activity; metal ion binding; oxidoreductaseactivity
PDB rendering basedon 1kcw.	

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