

Recombinant Mouse Cp protein, His & T7-tagged

Cat. No. Cp-5626M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cp aa. (Tyr729~Gly1061 (Accession # Q61147)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Tyr729~Gly1061
Description	The protein encoded by this gene is a copper-containing glycoprotein found soluble in the serum and GPI-anchored in other tissues. It oxidizes Fe(II) to Fe(III) and is proposed to play an important role in iron homeostasis. In humans mutations of this gene cause aceruloplasminemia, which is characterized by retinal degeneration, diabetes, anemia and neurological symptoms. In mouse deficiency of this gene in combination with a deficiency of its homolog hephaestin causes retinal degeneration and serves as a pathophysiological model for aceruloplasminemia and age-related macular degeneration. Alternative splicing results in multiple transcript variants that encode different protein isoforms.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 42.1kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 6.5.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Cp ceruloplasmin [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cp
Synonyms	Cp; ceruloplasmin; D3Ert555e; ferroxidase
Gene ID	12870
mRNA Refseq	NM_001276248.1
Protein Refseq	NP_001263177.1

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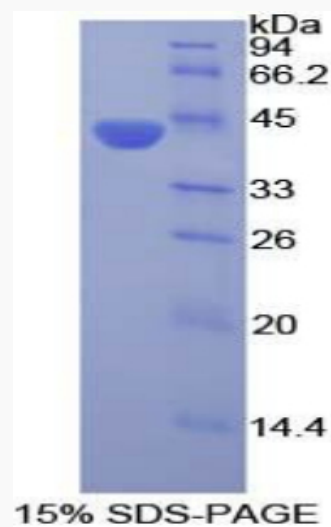
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UniProt ID

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SDS-PAGE

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