Recombinant Mouse Cp Protein, His&GST-tagged

Cat. No. Cp-832M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cp Protein (Glu57-Arg87) with His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Glu57-Arg87
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: 33.4 kDa; Accurate Molecular Mass: 37 kDa
Purity	> 90%

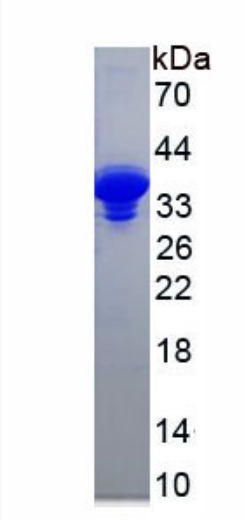
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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Cp ceruloplasmin [Mus musculus (house mouse)]
Official Symbol	Cp
Synonyms	CP; ceruloplasmin; ferroxidase; D3Ertd555e;
Gene ID	12870
mRNA Refseq	NM_001042611
Protein Refseq	NP_001036076
UniProt ID	Q61147

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