Recombinant Human CCS Protein, with Cu (I)

Cat. No. CCS-483H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cu (I)-CCS (aa 1-274)(Copper chaperone for superoxide dismutase) with a GSFT sequence at N-terminal was expressed in E. coli. Binding of 2 Cu (I) to the protein was confirmed by ICP.
Species	Human
Source	E.coli
ProteinLength	aa 1-274
Description	Copper chaperone for superoxide dismutase specifically delivers Cu to copper/zinc superoxide dismutase and may activate copper/zinc superoxide dismutase through direct insertion of the Cu cofactor.
Form	In 20 mM Phosphate buffer pH 7.0.
Molecular Mass	29.4 kDa
AA Sequence	GMSF-MASDSGNQGT LCTLEFAVQM TCQSCVDAVR KSLQGVAGVQ DVEVHLEDQM VLVHTTLPSQ EVQALLEGTG RQAVLKMGS GQLQNLGAAV AILGGPGTVQ GVVRFLQLTP ERCLIEGTID GLEPGLHGLH VHQYGDLTMM CNSCGNHFNP DGASHGGPQD SDRHRGDLGN VRADADGRAI FRMEDEQLKV WDVIGRSLII DEGEDDLGRG GHPLSKITGN SGERLACGII ARSAGLFQNP KQICSCDGLT IWEERGRPIA GKGRKESAQP PAHL

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Purity	>95% by SDS-PAGE. The protein was observed as a single band migrating at a molecular weight > 25 kDa and < 35 kDa.
Notes	To avoid oxidation and leaking of the Cu(I) bound to the protein, keep and use the sample under inert atomosphere.
Storage	Store at - 20 centigrade. The protein is stable at 4 centigrade for at least 2 weeks and at 25 centigrade for at least several hours. After initial deforst, aliquot product into individual tubes under inert atomosphere and refreeze at - 20 centigrade. Avoid repeated freeze/defrost cycles. Avoid exposition to air.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	CCS copper chaperone for superoxide dismutase [Homo sapiens]
Official Symbol	CCS
Synonyms	CCS; copper chaperone for superoxide dismutase; superoxide dismutase copper chaperone; MGC138260;
Gene ID	9973
mRNA Refseq	NM_005125
Protein Refseq	NP_005116
MIM	603864
UniProt ID	O14618

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Chromosome Location	11
Pathway	Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem;
Function	copper ion binding; copper ion transmembrane transporter activity; metal ion binding; protein binding; NOT superoxide dismutase activity; superoxide dismutase copper chaperone activity; zinc ion binding;

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