

Recombinant Human CCS, His-tagged

Cat. No. CCS-31477TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Superoxide Dismutase 4 with an N terminal His tag; 294 amino acids with a predicted MWt 31.2kDa including tag.
Species	Human
Source	E.coli
ProteinLength	274 amino acids
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.
Conjugation	HIS
Molecular Weight	31.200kDa inclusive of tags
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.2M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMASDSGNQGTLCLEFAVQMTQCSCVDAVRKSLQ GVAGVQDVEVHLEDQMVLVHTTLPSEQEVQALLEGTRQAVLKGMGSGQLQNLGAA VAILGGPGTVQGVRFLQLTPERCLIEGTIDGLEPGLHGLHVHQYGDLTNNCNSCGN HFNPDGASHGGPQDSDRHRGDLGNVRADADGRAIFRMEDEQLKVWDVIGRSLIIDE GEDDLGRGGHPLSKITGNSGERLACGIIARSAGLFQNPQKQICSCDGLTIWEERGRPIA GKGRKESAQPPAHL
Sequence Similarities	In the C-terminal section; belongs to the Cu-Zn superoxide dismutase family. Contains 1 HMA domain.

GENE INFORMATION

Gene Name	CCS copper chaperone for superoxide dismutase [Homo sapiens]
Official Symbol	CCS
Synonyms	CCS; copper chaperone for superoxide dismutase;
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;

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