

## Recombinant Human CCS, His-tagged

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

### SPECIFICATION

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

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

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | CCS copper chaperone for superoxide dismutase [ Homo sapiens ] |
| <b>Official Symbol</b> | CCS  |
| <b>Synonyms</b>        | CCS; copper chaperone for superoxide dismutase;                |
| <b>Gene ID</b>         | 9973   |
| <b>mRNA Refseq</b>     | NM_005125  |
| <b>Protein Refseq</b>  | NP_005116  |
| <b>MIM</b>             | 603864   |
| <b>Uniprot ID</b>      | O14618   |

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

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