

## 32-3439: CCS Recombinant Protein

### Description

Source : Escherichia Coli. CCS Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 294 amino acids (1-274 a.a.) and having a molecular weight of 31.2 kDa. The CCS is fused to 20 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques. CCS is vital for the integration of copper into SOD-1, and as a result is needed for its enzymatic activity. CCS inhibits copper ions from binding to intracellular copper scavengers and provides the SOD-1 enzyme with the required copper cofactor. CCS escorts copper just to SOD-1 and is unable to deliver copper to proteins in the mitochondria, nucleus or secretory pathway. Although many tissues express CCS, the chaperone is most abundant in the kidney, liver and Purkinje cells in the neuropil of the central nervous system.

### Product Info

<b>Amount :</b>	25 µg
<b>Purification :</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Content :</b>	The CCS protein solution (1mg/1ml) contains 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT 0.2M NaCl and 10% glycerol.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHHH SGLVPRGSH MASDSGNQGT LCTLEFAVQM TCQSCVDAVR KSLQGVAGVQ DVEVHLEDQM VLVHTTLPSQ EVQALLEGTG RQAVLKGMS GQLQNLGAAV AILGGPGTVQ GVVRFLLQTP ERCLIEGTID GLEPGLHGLH VHQYGDLTNN CNSCGNHFNPDGASHGGPQD SDRHRGDLGN VRADADGRAI FRMEDEQLKV WDVIGRSLII DEGEDDLGRG GHPLSKITGN SGERLACGII ARSAGLFQNP KQICSCDGLT IWEERGRPIA GKGRKESAP PAHL

