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Recombinant Human Copper Chaperone for Superoxide Dismutase

CLPRO251
CLPRO251-2
CLPRO251-3

Introduction: 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.

Description: 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 a 20 a.a. His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Presentation: 5 µg (CLPRO251), 25 µg (CLPRO251-2), or 1 mg (CLPRO251-3), sterile filtered colorless solution. The CCS protein solution (1 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 1 mM DTT, 0.2 M NaCl and 10% glycerol.

Stability: 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.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Amino Acid Sequence: MGSSHHHHHH SGLVPRGSH MASDSGNQGT LCTLEFAVQM TCQSCVDAVR
KSLQGVAGVQ DVEVHLEDQM VLVHTTLPSQ EVQALLEG TG RQAVLKGMGS GQLQNLGA AV
AILGGPGTVQ GVVRFLLQTP ERCLIEGTID GLEPGLHGLH VH QYGDLTNN CNSCGNHFN P
DGASHGGPQD SDRHRGDLGN VRADADGRAI FRMEDEQLKV WDVIGRSLII DEGEDDLGRG
GHPLSKITGN SGERLACGII ARSAGLFQNP KQICSCDGLT IWEERGRPIA GKGRKESAPQ PAHL

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