

Recombinant Human Copper Chaperone for Superoxide Dismutase Protein

Datasheet

Catalog Number: PR27283 **Product Type:** Recombinant Protein

Source: F. Coli

Mass:

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MASDSGNQGT LCTLEFAVQM TCQSCVDAVR KSLQGVAGVQ

DVEVHLEDQM VLVHTTLPSQ EVQALLEGTG RQAVLKGMGS GQLQNLGAAV AILGGPGTVQ GVVRFLQLTP ERCLIEGTID GLEPGLHGLH VHQYGDLTNN CNSCGNHFNP DGASHGGPQD SDRHRGDLGN VRADADGRAI FRMEDEQLKV WDVIGRSLII DEGEDDLGRG GHPLSKITGN

SGERLACGII ARSAGLFQNP KQICSCDGLT IWEERGRPIA GKGRKESAQP PAHL.

CCS is vital for the integration of copper into SOD-1, and as a result is needed for its enzymatic Description/Molecular 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.

CCS Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 294amino acids (1-274a.a.) and having a molecular wieght of 31.2kDa. The CCS is fused

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

Greater than 90.0% as determined by: Purity:

(a) Analysis by SDS-PAGE.

The CCS protein solution (1mg/1ml) contains 20 mM Tris-HCl buffer (pH8.0), 1mM DTT, 0.2M NaCl Format:

and 10% glycerol.

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of Storage:

time. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

FOR RESEARCH USE ONLY

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