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CCS Human

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

Catalog #:PRPS-258

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

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 GH

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

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

Usage:
NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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. Althoµgh many tissues express CCS, the chaperone is most abundant in the kidney, liver and Purkinje cells in the neuropil of the central nervous system.

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