

CCS recombinant protein

CCS, 1-274aa, Human, His tag, E Coli

CATALOG # AAA48602	HOST E Coli	APPLICATIONS SDS-Page
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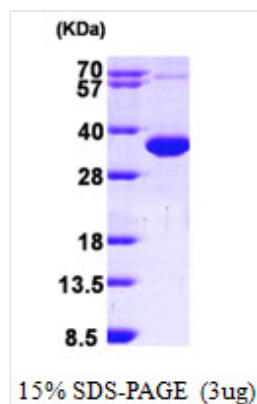
PRODUCT SYNONYMS

CCS; 1-274aa; Human; His tag; E Coli; Copper chaperone for superoxide dismutase; CCS recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 0.2M NaCl 1mM DTT, 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSGLVPRGSH MASDSGNQGT LCTLEFAVQM TCQSCVDAVR KSLQGVAGVQ DVEVHLEDQM VLVHTTLPSQ EVQALLEG TG RQAVLKG MGS GQLQNLGA AV AILGGPGTVQ GVVRFQLTLP ERCLIEGTID GLEPGLHGLH VHQYGDLTNN CNSCGNHFNP DGASHGGPQD SDRHRGDLGN VRADADGRAI FRMEDEQLKV WDVIGRSLII DEGEDDLGRG GHPLSKITGN SGERLACGII ARSAGLFQNP KQICSCDGLT IWEERGRPIA GKGRKESAP PAHL
Sequence Length	274
Applicable Applications for CCS recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CCS recombinant protein	CCS is essential for the incorporation of copper into SOD-1, and therefore is necessary for its enzymatic activity. CCS prevents copper ions from binding to intracellular copper scavengers and provides the SOD-1 enzyme with the necessary copper cofactor. CCS escorts copper only to SOD-1 and fails to deliver copper to proteins in the mitochondria, nucleus or secretory pathway. While many tissues express CCS, the chaperone is most abundant in the kidney, liver and Purkinje cells in the neuropil of the central nervous system. Recombinant human CCS protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for CCS recombinant protein	Cancer
References	Romerius P., et al. (2010) Clin Cancer Res. 16 (15):3843-50.; Seetharaman SV., et al. (2010) Biochemistry. 49 (27):5714-25.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826665
NCBI GeneID	9973
NCBI Accession #	NP_005116
NCBI GenBank Nucleotide #	NM_005125.1
UniProt Accession #	O14618; Q2M366; Q8NEV0
Molecular Weight	31.2 kDa (294aa), confirmed by MALDI-TOF
NCBI Official Full Name	copper chaperone for superoxide dismutase
NCBI Official Synonym Full Names	copper chaperone for superoxide dismutase
NCBI Official Symbol	CCS
NCBI Protein Information	copper chaperone for superoxide dismutase
UniProt Protein Name	Copper chaperone for superoxide dismutase
UniProt Gene Name	CCS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.