Recombinant Human Cu/Zn Superoxide Dismutase Monomer

ORDERING INFORMATION

Catalog Number	Size
13001P-5	5ug
13001P-25	25ug
13001P-1000	1000ug

Formulation: Sterile-filtered solution in 20mM Tris, pH 7.5 and 20% glycerol. Purified by proprietary chromatographic techniques.

BACKGROUND

Cu/Zn Superoxide Dismutase (SOD1) catalyzes the reaction between superoxide anions and hydrogen to yield molecular oxygen and hydrogen peroxide. It protects a cell from dangerous levels of superoxide. SOD1 binds copper and zinc ions and is one of three isozymes responsible for destroying free superoxide radicals. Mutations in SOD1 cause a form of familial amyotrophic lateral sclerosis (ALS).

DESCRIPTION

Recombinant Human Cu/Zn SOD1 produced in E. coli is a single monomeric non-glycosylated polypeptide chain containing 154 amino acids with a molecular weight of 15.9kDa.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 95% as determined by SDS- PAGE and RP-HPLC.

Accession number: P00441

Amino acid sequence:

MATKAVCVLK GDGPVQGIIN FEQKESNGPV KVWGSIKGLT EGLHGFHVHE FGDNTAGCTS AGPHFNPLSR KHGGPKDEER HVGDLGNVTA DKDGVADVSI EDSVISLSGD HCIIGRTLVV HEKADDLGKG GNEESTKTGN AGSRLACGVIGIAQ

STORAGE AND STABILITY

Although stable at 4°C for 4 weeks, product is best stored at or below -20°C. Addition of a carrier protein (such as 0.1% HSA or BSA) is recommended for long-term storage.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.

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