



Product Datasheet

Product Name	Superoxide Dismutase Human Recombinant
Cata No	CB500907
Source	Escherichia Coli.
Synonyms	Superoxide dismutase [Cu-Zn], EC 1.15.1.1, SOD1, SOD

Description

Human Cu/Zn Superoxide Dismutase (SOD) catalyzes the reaction between superoxide anions and hydrogen to yield molecular oxygen and hydrogen peroxide. The enzyme protects the cell against dangerous levels of superoxide.

Recombinant Human Cu/Zn Superoxide Dismutase produced in E.Coli is a homodimer, non-glycosylated polypeptide chain containing 2 x 154 amino acids and having a total molecular mass of 31,608 Dalton. The Cu/Zn SOD is purified by proprietary chromatographic techniques

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Specific Activity

The potency per mg was tested by Pyrogalllic Acid method and was found to be more than 10,000 Units/mg.

Storage

Lyophilized SOD although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SOD should be stored at 4°C between 2-7 days and for future use below -18°C.

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

Please prevent freeze-thaw cycles.

Solubility

It is recommended to reconstitute the lyophilized SOD in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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