

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Cu/Zn Superoxide Dismutase, His (rHuCu/Zn SOD, His)

Catalog Number: PR1013

Source: Escherichia coli.

Quantity: 20µg/100µg/1.0mg

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.

Molecular Weight:

Approximately 20.0 kDa. a homodimer, non-glycosylated polypeptide chain containing 189 amino acids with 10 x His at the N-terminal.

Purity:

>95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The potency per mg was tested by Pyrogalllic Acid method and was found to be more than 10,000Units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

AA Sequence:

M G H H H H H H H H H S S G H I E G R H M T Y A R
A A A R Q A R A L E A T K A V C V L K G D G P V Q G
I I N F E Q K E S N G P V K V W G S I K G L T E G L H G
F H V H E F G D N T A G C T S A G P H F N P L S R K H

G G P K D E E R H V G D L G N V T A D K D G V A D V
S I E D S V I S L S G D H C I I G R T L V V H E K A D D L
G K G G N E E S T K T G N A G S R L A C G V I G I A Q

Endotoxin:

Less than 1EU/mg of rHuSOD, His as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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