



Recombinant Human Copper, Zinc-Superoxide Dismutase (rh-Cu, Zn-SOD)

Product Name: Recombinant human copper, zinc-superoxide dismutase (rh-Cu, Zn-SOD)

Alternative Name: Superoxide dismutase 1 (SOD1)

Catalog Number: NRPA01S

Packing details: 1 mg, 10 mg, 100 mg, 500 mg

Formulation: Lyophilized from sterile water

Mol. Wt.: 17 kDa

N-terminus Sequenced: ATKAVCVLKG

Resources: Escherichia coli (E. coli)

Purity: $\geq 95\%$ by SDS-PAGE analysis

Endotoxin : < 1.0 EU/ μ g protein

Metals: Cadmium < 0.5 ppm; Mercury < 0.5 ppm; Lead < 6.5 ppm (1ppm= 1μ g metal/g Protein)

Specific activity:

$\geq 10,000$ IU/mg protein (Determined by NUPTEC according to modified Marklund assay at 35°C)

$\geq 10,380$ IU/mg protein (Determined by SGS according to GB/T5009.171-2003 I)

Storage condition: -20°C in dark place

Storage duration: 3 years

Description:

Superoxide dismutase (SOD) is a category of metalloenzyme, extensively existing in all living organisms (e.g. animals, plants, microorganisms, etc.). Based on its metallicity, SOD is categorized into copper, zinc-SOD (Cu, Zn-SOD), manganese-SOD (Mn-SOD) and iron-SOD (Fe-SOD). SOD has a physiological significance that can convert toxic superoxide free radicals into hydrogen peroxide, it's the primary substance to scavenge oxygen free radicals in living organisms. It has been demonstrated that there are up to 60 diseases directly related to oxygen free radicals and SOD level has been known as an illustrated indicator for aging and death. SOD can prohibit superoxide free radicals-induced damage at cellular level and locally repair damaged cells. It plays more and more important role in anti-oxidation in living organisms. SOD is one of components in cosmetic products, approved by Ministry of Health of the People's Republic of China, because it can delay aging, regulate immune response and blood lipid level, and prevent radiation.

Notes:

It is recommended that the product is reconstituted with sterile water into a final concentration of 1 mg/ml (10 KU/ml). Store the reconstituted product in aliquots at -20°C in dark place. Avoid multiple freeze-thaw

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cycles and exposure to frequent temperature changes.

The use of strong acids and alkalis, strong oxidants, and high concentrations of organic solvents should be avoided to protect the product from denaturation.

