

Understanding Life One Protein at a Time ...

Recombinant Human Copper, Zinc-Superoxide Dismutase (rh-SOD1)

Alternative Name Superoxide Dismutase1 (SOD1)

Packing Details 10mg

> **Catalog No.** LT12010

Physical Appearance Freeze-dried powder

> Mol. Wt. 17 kDa

N-terminus Sequenced **ATKAVCVLKG**

> Resources Escherichia coli (E. coli)

> > ≥95% **Purity**

Endotoxin <1.0 EU/µg protein

Metals Cadmium<0.5 ppm; Mercury<0.5 ppm; Lead <6.5 ppm (1 ppm=1 µg metal/g protein)

≥10,000 IU/mg protein (Determined by NUPTEC according to modified Marklund

assav at 35 °C) **Specific Activity** ≥10,380 IU/mg protein (Determined by SGS according to GB/T5009.171-2003 I)

prevent damage from solar radiation.

Storage -20°C in dark place

Shelf Life

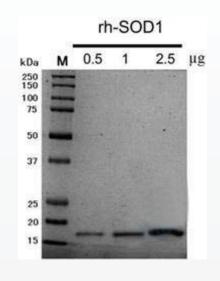
3 years

Description

iron-SOD (Fe-SOD). The physiological significance of SOD is that it can convert toxic superoxide free radicals into hydrogen peroxide. It is living organisms' primary means of scavenging oxygen free radicals. Almost 60 diseases have been shown to be directly related to oxygen free radicals and the level of SOD has used as an indicator of aging and death. SOD can prevent superoxide-free-radical-induced damage at the cellular level and locally repair damaged cells. It plays an important role in anti-oxidation in living organisms. SOD is also a key component in cosmetic products and has been approved by the Ministry of Health of the People's Republic of China because it can delay aging, regulate immune response, and blood lipid levels, and

Superoxide dismutase (SOD) is a metalloenzyme. It is present in all living organisms, including animals, plants, and microorganisms. SOD is categorized based on its metallicity into copper, zinc-SOD (Cu, Zn-SOD), manganese-SOD (Mn-SOD), and







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Notes

It is recommended that the product be reconstituted with sterile water into a final concentration of 10 mg/ml. Avoid multiple freeze-thaw cycles and exposure to frequent changes in temperature.

The use of strong acids and bases, strong oxidants, and high concentrations of organic solvents should be avoided to prevent denaturation.

For research purposes only!

