

Native Bovine Superoxide Dismutase

Cat. No. NATE-1870

Lot. No. (See product label)

Introduction

Description

The superoxide (O2-) ion is believed to be responsible for lipid peroxidation and peroxidative hemolysis of erythrocytes. The action of superoxide dismutase, therefore, results in protection of the biological integrity of cells and tissues against the harmful effects of superoxide free radicals. Superoxide dismutase is widely distributed in both plants and animals. It occurs in high concentrations in brain, liver, heart, erythrocytes and kidney. Three superoxide dismutases have been characterized according to their metal content. The enzyme from bovine and human erythrocytes contains copper and zinc, the one from chicken and rat liver mitochondria contains manganese while the enzyme from E. coli contains iron. Superoxide dismutase from bovine erythrocytes has a molecular weight of 32,500.

Synonyms

Superoxide dismutases; EC 1.15.1.1; superoxidase dismutase; copper-zinc superoxide dismutase; Cu-Zn superoxide dismutase; ferrisuperoxide dismutase; superoxide dismutase I; superoxide dismutase II; SOD; Cu,Zn-SOD; Mn-SOD; Fe-SOD; SODF; SODS; SOD-1; SOD-2; SOD-3; SOD-4; hemocuprein; erythrocuprein; cytocuprein; cuprein; hepatocuprein; 9054-89-1

Product Information

Species Bovine

Source Bovine Kidney

Form Freeze-dried powder

EC Number EC 1.15.1.1

CAS No. 9054-89-1

Purity 0.95

Activity 3000 U/mg protein

Solubility Soluble in distilled water or dilute buffer

Unit That amount of enzyme which, under specified conditions of the assay, will cause a 50% inhibition in the

Definition rate of reduction of ferricytochrome C.

Storage and Shipping Information

Storage Store at -20° C

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