

Product Data Sheet

Product Name: SOD (Porcine erythrocytes)

Cat. No.: GC19855

Chemical Properties

Cas. No. 9054-89-1

Formula M.Wt

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Source: Porcine erythrocytes

Vitality: ≥2500u/mg protein

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Introduction: The catalytic $O_2^- + O_2^- + 2H^+ = H_2O_2 + O_2$ reaction contains two identical subunits. According to the different metal auxiliary ions, they are divided into three types: Cu-Zn-SOD, each subunit contains copper and zinc ions each with a molecular weight of $34000 \pm (4\%)$; Mn-SOD, with a molecular weight of 400,000; Fe-SOD, with a molecular weight of approximately 40000.

Superoxide dismutase (SOD) catalyzes the removal of the O_2^- free radical. The enzyme protects oxygen-metabolizing cells against harmful effects of superoxide free-radicals. Superoxide dismutase is inactivated by H_2O_2 . It consists of two subunits of identical molecular weight joined by a disulfide bond. The molecular weight is 32,500 daltons, and there are two Cu(II) and two Zn(II) atoms per molecule. The isoelectric point of the enzyme is 4.95.

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