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

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Introduction: The catalytic O2-+O2-+2H+=H2O2+O2 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±(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 O2- free radical. The enzyme protects oxygen-metabolizing cells against harmful effects of superoxide free-radicals. Superoxide dismutase is inactivated by H2O2. 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.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA