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SOD1
Native Human Superoxide Dismutase (SOD1)

Catalog No.	CRA171A	**Quantity:**	100 µg

Alternate Names: Superoxide dismutase [Cu-Zn], Superoxide dismutase 1, Sod1

Description: Superoxide dismutase (SOD) is an important antioxidant that protects many types of cells from superoxide anion radical by partitioning O^-_2 into O_2 and H_2O_2. There are three major families of superoxide dismutase, depending on the protein fold and the metal cofactor: the Cu/Zn type used by eukaryotes (SOD1 human cytoplasm, SOD3 human extracellular) , Iron type (bacteria, chloroplasts) and Manganese type (bacteria, mitochondria - as SOD2 in humans), and the Nickel type (prokaryotes).

UniProt ID: P00441

Source: Human erythrocytes

Molecular Weight: 16 kDa

Formulation: Lyophilized from 0.1 M KH_2PO_4, pH 7.5

Purity: >95% by SDS-PAGE analysis

Extinction Coefficient: $E^{0.1\%}_{280nm}$ = 0.584>95% by SDS-PAGE analysis

Specific Activity: >50,000 units/mg protein
One unit is defined as the amount of enzyme which will inhibit by 50% the formation of a colorimetric indicator by O2-in a xanthine/xanthine oxidase coupled system.

Storage & Stability: Store at -20°C to -80°C for up to 1 year.

Infectious Disease Statement: Prepared from whole blood shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

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