



# Human Superoxide dismutase [Cu-Zn] (SOD1) ELISA kit

Product Code	CSB-E16845h
Abbreviation	SOD1
Uniprot No.	P00441
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	62.5 pg/ml - 4000 pg/ml
Sensitivity	15.6 pg/ml
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	SOD1
Tag Info	quantitative
Protein Description	Sandwich

## Description

The human superoxide dismutase (SOD1) ELISA kit is suitable for quantitatively determining human SOD1 in serum, plasma, or tissue homogenates. This assay employs the bi-antibody sandwich technique and enzyme-substrate chromogenic reaction to quantify human SOD1 levels in the sample. The amount of synthesized colored product is positively related to the analyte of interest in the sample.

SOD1 is a metalloenzyme that catalyzes the dismutation of superoxide anion into hydrogen peroxide and molecular oxygen in two asymmetrical steps using an essential copper atom in the active site of the enzyme. As an antioxidant enzyme, SOD1 protects the cell from reactive oxygen species toxicity. SOD1 has been reported to be increasingly expressed during oxidative stress as an adaptive cellular response. Mutations in the gene encoding SOD1 result in misfolding and aggregation of SOD1 and cause familial amyotrophic lateral sclerosis (FALS).

## Msds

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