

Active Recombinant Human Superoxide Dismutase

Cat. No. SOD1-8H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human SOD is produced in genetically engineered yeast, and purified by ionic exchange chromatography.
Species	Human
Source	yeast
Description	Cu/Zn Human Superoxide Dismutase is a stable dimer of identical subunits with a combined molecular mass of 32,000 daltons. This enzyme dismutates the superoxide radical to molecular oxygen. This enzyme has been expressed in yeast and purified using sequential chromatography steps. The hSOD is acetylated at its N-terminus.
Form	10 mg/ml in water (no additive is added)
Bio-activity	The specific activity of SOD is 260 U/mg. The enzymatic activity of human SOD is determined by calorimetrically determining the oxidation of a chromophore. This was performed with a commercially available kit called SOD-525 from Bioxytech S.A. (Cedex, France).
Molecular Mass	32 KDa (dimeric protein)
Purity	Over 98% pure by non-reduced SDS gel electrophoresis.
Stability	Several months at -20°C.

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Storage Store at -20°C.

GENE INFORMATION

Gene Name SOD1[superoxide dismutase 1, soluble [?Homo sapiens?(human)]

Official Symbol SOD1

Synonyms SOD1; S; SOD; ALS1; IPOA; hSod1; homodimer; superoxide dismutase [Cu-Zn]; SOD, soluble; OTTHUMP00000107278; OTTHUMP00000107279; indophenoloxidase A; Cu/Zn superoxide dismutase; superoxide dismutase, cystolic

Gene ID 6647

mRNA Refseq NM_000454

Protein Refseq NP_000445

MIM 147450

UniProt ID P00441

Chromosome Location 21q22.11

Pathway Amyotrophic lateral sclerosis (ALS); FOXA1 transcription factor network; Folate Metabolism; Formation of Platelet plug; Hemostasis; Huntington's disease; Oxidative Stress;

Function chaperone binding; copper ion binding; copper ion binding; oxidoreductase activity; protein binding; protein homodimerization activity; protein phosphatase 2B binding;

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superoxide dismutase activity; zinc ion binding

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