

# Recombinant Full Length Human SOD1 Protein, C-Flag-tagged

**Cat. No.** SOD1-1180HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human SOD1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occurring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. In addition, this protein contains an antimicrobial peptide that displays antibacterial, antifungal, and anti-MRSA activity against <i>E. coli</i> , <i>E. faecalis</i> , <i>S. aureus</i> , <i>S. aureus</i> MRSA LPV+, <i>S. agalactiae</i> , and yeast <i>C. krusei</i> . Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	15.8 kDa
<b>AA Sequence</b>	MATKAVCVLKGDGPVQGIINFEQKESNGPVKVVWGSIKGLTEGLHGFHVHEFGDNTA GCTSAGPHFNPLSR KHGGPKDEERHVGDLGNVTADKDG VADVSIEDSVISLSGDH CIIGRTL VVHEKADDLGKGGNEESTKTGN

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AGSRLACGVIGIAQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining.

**Stability** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade.

**Concentration** >50 ug/mL as determined by microplate BCA method.

**Preparation** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Protein Families** Druggable Genome

**Protein Pathways** Amyotrophic lateral sclerosis (ALS), Huntington's disease, Prion diseases

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** [SOD1 superoxide dismutase 1 \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [SOD1](#)

**Synonyms** ALS; SOD; ALS1; IPOA; STAHP; hSod1; HEL-S-44; homodimer

**Gene ID** [6647](#)

**mRNA Refseq** [NM\\_000454.5](#)

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**Protein Refseq** NP\_000445.1

**MIM** 147450

**UniProt ID** P00441



Coomassie blue staining of purified SOD1 protein.

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