

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

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

SPECIFICATION

Product Overview	Recombinant Full Length Human SOD1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	15.8 kDa
AA Sequence	MATKAVCVLKGDGPVQGIINFEQKESNGPVKVVWGSIKGLTEGLHGFHVHEFGDNTA GCTSAGPHFNPLSR KHGGPKDEERHVGDLGNVTADKDGADVSIEDSVISLSGDH CIIGRTLTVHEKADDLGKGGNEESTKTGN

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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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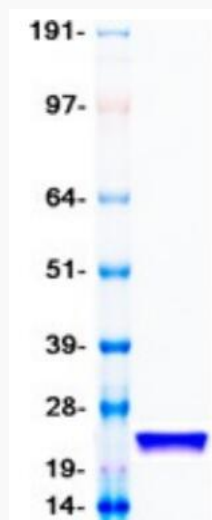
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Protein Refseq [NP_000445.1](#)

MIM [147450](#)

UniProt ID [P00441](#)



Coomassie blue staining of purified SOD1 protein.

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