

# Recombinant Human SOD1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. SOD1-070H Lot. No. (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | SOD1 MS Standard C13 and N15-labeled recombinant protein (NP_000445) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | HEK293  |
| <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. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene. |
| <b>Molecular Mass</b>   | 15.9 kDa  |
| <b>AA Sequence</b>      | MATKAVCVLKGDPVQGIINFEQKESNGPVKVVWGSIKGLTEGLHGFHVHEFGDNTA<br>GCTSAGPHFNPLSRKHGGPKDEERHVGDLGNVTADKDGADVSIEDSVISLSGDHC<br>IIGRTLVVHEKADDLGGKGGNEESTKTGNAGSRLACGVIGIAQTRTRPLEQKLISEEDL<br>AANDILDYKDDDDKV   |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining   |

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|-------------------------|---|
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling conditions.  |
| <b>Storage</b>          | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.   |
| <b>Concentration</b>    | 50 µg/mL as determined by BCA   |
| <b>Storage Buffer</b>   | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.   |
| <b>GENE INFORMATION</b> |   |
| <b>Gene Name</b>        | SOD1 superoxide dismutase 1 [ Homo sapiens (human) ]  |
| <b>Official Symbol</b>  | SOD1  |
| <b>Synonyms</b>         | SOD1; superoxide dismutase 1; ALS; ALS1; HEL-S-44; homodimer; hSod1; IPOA; SOD; superoxide dismutase [Cu-Zn]; Cu/Zn superoxide dismutase; SOD, soluble; epididymis secretory protein Li 44; indophenoxidase A; superoxide dismutase 1, soluble; superoxide dismutase, cystolic; EC 1.15.1.1 |
| <b>Gene ID</b>          | 6647  |
| <b>mRNA Refseq</b>      | NM_000454   |
| <b>Protein Refseq</b>   | NP_000445   |
| <b>MIM</b>              | 147450  |
| <b>UniProt ID</b>       | P00441  |

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SDS-PAGE



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