

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

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

SPECIFICATION

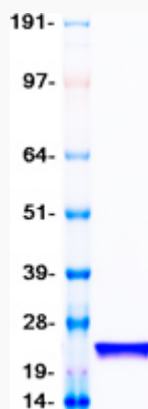
Product Overview	SOD1 MS Standard C13 and N15-labeled recombinant protein (NP_000445) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene binds copper and zinc ions and is one of two isozymes responsible for destroying 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. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.
Molecular Mass	15.9 kDa
AA Sequence	MATKAVCVLKGDGPVQGIINFEQKESNGPVKVGSIKGLTEGLHGFHVHEFGDNTA GCTSAGPHFNPLSRKHGGPKDEERHVGDLGNVTADKDGADVSIEDSVISLSGDHC IIGRTLNVHEKADDLGKGGNEESTKTGNAGSRLACGVIGIAQTRTRPLEQKLISEEDL AANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	SOD1 superoxide dismutase 1 [Homo sapiens (human)]
Official Symbol	SOD1
Synonyms	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; indophenoloxidase A; superoxide dismutase 1, soluble; superoxide dismutase, cystolic; EC 1.15.1.1
Gene ID	6647
mRNA Refseq	NM_000454
Protein Refseq	NP_000445
MIM	147450
UniProt ID	P00441

SDS-PAGE

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