

Recombinant Human SOD1 Protein

Cat. No. SOD1-029H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human SOD1 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	154
Description	<p>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 E. coli, E. faecalis, S. aureus, S. aureus MRSA LPV+, S. agalactiae, and yeast C. krusei. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene.</p>
Form	Solution
Molecular Mass	15.9 kDa
AA Sequence	MATKAVCVLKGDPVQGGIINFEQKESNGPVKVVWGSIKGLTEGLHGFHVHEFGDNTA GCTSAGPHFNPLSRKHGGPKDEERHVGDLGNVTADKDGVADVSIEDSVISLSGDHC

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IIGRTLVVHEKADDLGKGGNEESTKTGNAGSRLACGVIGIAQ

Purity > 95%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage 4°C

Concentration 1 mg/mL

Storage Buffer Tris-HCl (pH 7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

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

Official Symbol SOD1

Synonyms SOD1; superoxide dismutase 1, soluble; ALS, ALS1, amyotrophic lateral sclerosis 1 (adult); superoxide dismutase [Cu-Zn]; IPOA; SOD, soluble; indophenoloxidase A; Cu/Zn superoxide dismutase; superoxide dismutase, cystolic; ALS; SOD; ALS1; hSod1; homodimer;

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Gene ID	6647
mRNA Refseq	NM_000454
Protein Refseq	NP_000445
MIM	147450
UniProt ID	P00441

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