

# Recombinant Human SOD2 protein

**Cat. No.** SOD2-31475TH **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SOD2 protein(P04179-1) (Lys 25-Lys 222) was expressed and purified in E.coli, with an initial Met.                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 25-222 aa                                                                                                                                                                                                                                                                  |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.5.                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | The recombinant human SOD2 consisting of 199 amino acids and has a calculated molecular mass of 22.3 kDa. It migrates as an 25 kDa band in SDS-PAGE under reducing conditions.                                                                                             |
| <b>Purity</b>           | > 97 % by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70°C as supplied. - 1 month, 2 to 8°C under sterile conditions after reconstitution. - 3 months, -20 to -70°C under sterile conditions after reconstitution. |
| <b>Reconstitution</b>   | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be                     |

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apportioned into working aliquots and stored at  $\leq -20^{\circ}\text{C}$ . Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

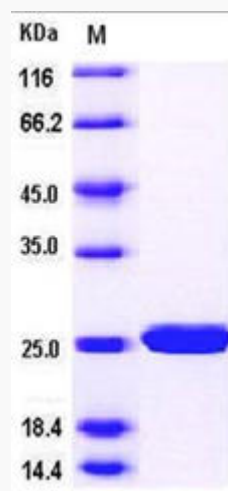
|                 |                                                                                                                                                                                                                                   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | SOD2 superoxide dismutase 2, mitochondrial [ Homo sapiens ]                                                                                                                                                                       |
| Official Symbol | SOD2                                                                                                                                                                                                                              |
| Synonyms        | SOD2; superoxide dismutase 2, mitochondrial; superoxide dismutase [Mn], mitochondrial; indophenoloxidase B; Mn superoxide dismutase; mangano-superoxide dismutase; manganese-containing superoxide dismutase; IPOB; MNSOD; MVCD6; |
| Gene ID         | 6648                                                                                                                                                                                                                              |
| mRNA Refseq     | NM_000636                                                                                                                                                                                                                         |
| Protein Refseq  | NP_000627                                                                                                                                                                                                                         |
| MIM             | 147460                                                                                                                                                                                                                            |
| UniProt ID      | P04179                                                                                                                                                                                                                            |

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SDS-PAGE



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