

## Recombinant Rat Sod1 protein, His-tagged

**Cat. No.** Sod1-2026R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant Rat Sod1 aa. (Ala2~Gln154 (Accession # P07632)) fused with N-terminal His tag was produced in E. coli cells.                                                                                                                                                                                                                       |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | Ala2~Gln154                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 17 kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                                                                                                                                                          |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                           |
| <b>Characteristic</b>   | The isoelectric point is 6.2.                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>     | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                                       |
| <b>Stability</b>        | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed.<br>(Referring from China Biological Products Standard, which was calculated by the |

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|                       |                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                       | Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                    |
| <b>Storage Buffer</b> | Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.                                                            |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                     |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Sod1 superoxide dismutase 1 [ Rattus norvegicus (Norway rat) ]</a>                                                                                                                                                                                   |
| <b>Official Symbol</b> | <a href="#">Sod1</a>                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | ABCB7; ATP binding cassette subfamily B member 7; ABC7; ASAT; Atm1p; EST140535; ATP-binding cassette sub-family B member 7, mitochondrial; ABC transporter 7 protein; ATP-binding cassette transporter 7; ATP-binding cassette, sub-family B (MDR/TAP), member 7 |
| <b>Gene ID</b>         | <a href="#">24786</a>                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | <a href="#">NM_017050.1</a>                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>  | <a href="#">NP_058746.1</a>                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>      | <a href="#">P07632</a>                                                                                                                                                                                                                                           |

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