

## Recombinant Mouse Sod2 Protein, His-tagged

**Cat. No.** Sod2-7342M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse Sod2, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.                                                                                        |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 25-222                                                                                                                                                                                                                                |
| <b>Description</b>      | Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.                                                                                                            |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 24.6 kDa                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MGSSHHHHHSSGLVPRGSHMGSKHSLPDLPYDYGALPHINAQIMQLHHSKHHA<br>AYVNNLNATEEKYHEALAKGDVTTQVALQPALKFNGGGHINHTIFWTNLSPKGGGE<br>PKGELLEAIKRDFGSFEKFKEKLTAVSVGVQSGWGWLGFNKEQGRLQIAACSNQD<br>PLQGTGTLIPLLIDVWEHAYYLQYKNVRPDYLKAIWNVINWENVTERYTACKK |
| <b>Purity</b>           | > 95 % by SDS-PAGE                                                                                                                                                                                                                    |
| <b>Stability</b>        | Shelf life: one year from despatch.                                                                                                                                                                                                   |

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|                       |                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing. |
| <b>Concentration</b>  | 1.0 mg/mL (determined by bradford assay)                                                                                                  |
| <b>Storage Buffer</b> | In Phosphate buffered saline (pH7.4) containing 10 % glycerol, 1 mM DTT.                                                                  |

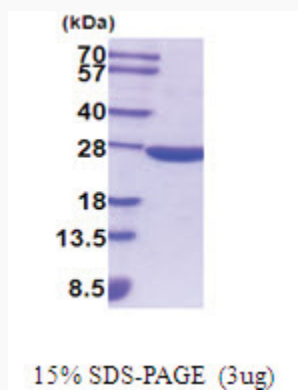
## GENE INFORMATION

|                        |                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Sod2 superoxide dismutase 2, mitochondrial [ Mus musculus (house mouse) ]                                                                                                |
| <b>Official Symbol</b> | Sod2                                                                                                                                                                     |
| <b>Synonyms</b>        | Sod2; superoxide dismutase 2, mitochondrial; Mn; Sod; MnSOD; Sod-2; superoxide dismutase [Mn], mitochondrial; manganese SOD; manganese superoxide dismutase; EC 1.15.1.1 |
| <b>Gene ID</b>         | 20656                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_013671                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_038699                                                                                                                                                                |
| <b>UniProt ID</b>      | P09671                                                                                                                                                                   |

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**SDS-PAGE**

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