# Recombinant Macaca mulatta Superoxide dismutase [Mn], mitochondrial (SOD2)

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| **Product Code** | CSB-BP812813MOW |
| **Abbreviation** | SOD2 |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| **Uniprot No.** | Q8HXP2 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Macaca mulatta (Rhesus macaque) |
| **Purity** | >85% (SDS-PAGE) |
| **Sequence** | KHSLPDLPYD YGALEPHINA QIMQLHHSKH HAAYVNNLNV TEEKYQEALA KGDVTAQIAL QPALKFNGGG HINHSIFWTN LSPNGGGEPK GELLEAIKRD FGSFEKFKEK LTAASVGVQG SGWGWLGFNK ERGQLQIAAC PNQDPLQGTT GLIPLLGIDV WEHAYYLQYK NVRPDYLKAI WNVINWENVT ERYMACKK |
| **Source** | Baculovirus |
| **Target Names** | SOD2 |
| **Protein Names** | Recommended name: Superoxide dismutase [Mn], mitochondrial EC= 1.15.1.1 |
| **Expression Region** | 1-198 |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | Tag type will be determined during the manufacturing process. |
| **Protein Length** | full length protein |
| **Target Details** | This gene is a member of the iron/manganese superoxide dismutase family. It encodes a mitochondrial protein that forms a homotetramer and binds one manganese ion per subunit. This protein binds to the superoxide byproducts of oxidative phosphorylation and converts them to hydrogen peroxide and diatomic oxygen. Mutations in this gene have been associated with idiopathic cardiomyopathy (IDC), premature aging, sporadic motor neuron disease, and cancer. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. |
| **Reconstitution** | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| **Shelf Life** | The shelf life is related to many factors, storage state, buffer ingredients, |

storage temperature and the stability of the protein itself.
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