Recombinant Bovine Superoxide dismutase [Mn], mitochondrial (SOD2)

Product Code	CSB-EP022398BO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P41976
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	>85% (SDS-PAGE)
Sequence	KHSLPD LPYDYGALEP HINAQIMQLH HSKHHAAYVN NLNVAEEKYR EALEKGDVTA QIALQPALKF NGGGHINHSI FWTNLSPNGG GEPQGELLEA IKRDFGSFAK FKEKLTAVSV GVQGSGWGWL GFNKEQGRLQ IAACSNQDPL QGTTGLIPLL GIDVWEHAYY LQYKNVRPDY LKAIWNVINW ENVTARYTAC SK
Source	E.coli
Target Names	SOD2
Protein Names	Recommended name: Superoxide dismutase [Mn], mitochondrial EC= 1.15.1.1
Expression Region	25-222
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 of Mature 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. 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.