



# Recombinant Mouse Extracellular superoxide dismutase [Cu-Zn] (Sod3)

<b>Product Code</b>	CSB-MP022399MO
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O09164
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	SSFDLA DRLDPVEKID RLDLVEKIGD THAKVLEIWM ELGRRREVDA AEMHAICRVQ PSATLPPDQP QITGLVLFQR LGPGSRLEAY FSLEGFPAEQ NASNRAIHVH EFGDLSQGCD STGPHYNPME VPHPQHGGDF GNFVVRNGQL WRHRVGLTAS LAGPHAILGR SVVHAGEDD LGKGGNQASL QNGNAGRRLA CCVVGTSSEA AWESQTKERK KRRRESECKT T
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Sod3
<b>Protein Names</b>	Recommended name: Extracellular superoxide dismutase [Cu-Zn] Short name= EC-SOD EC= 1.15.1.1
<b>Expression Region</b>	25-251
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Extracellular domain
<b>Target Details</b>	This gene encodes a member of the superoxide dismutase (SOD) protein family. SODs are antioxidant enzymes that catalyze the dismutation of two superoxide radicals into hydrogen peroxide and oxygen. The product of this gene is thought to protect the brain, lungs, and other tissues from oxidative stress. The protein is secreted into the extracellular space and forms a glycosylated homotetramer that is anchored to the extracellular matrix (ECM) and cell surfaces through an interaction with heparan sulfate proteoglycan and collagen. A fraction of the protein is cleaved near the C-terminus before secretion to generate circulating tetramers that do not interact with the ECM.
<b>Reconstitution</b>	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.
<b>Shelf Life</b>	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.