

Extracellular superoxide dismutase [Cu-Zn] (SOD3) Recombinant Protein | SOD3 recombinant protein

Recombinant Human Extracellular superoxide dismutase [Cu-Zn] (SOD3), partial

CATALOG #
AAA114014

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

PRODUCT SYNONYMS

Extracellular superoxide dismutase [Cu-Zn] (SOD3); Recombinant Human Extracellular superoxide dismutase [Cu-Zn] (SOD3); partial; SOD3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	19-240\naa, Extracellular domain
Sequence	WTGEDSAEPN SDSA EWIRDM YAKVTEIWQE VMQRRDDDGA LHAACQVQPS ATLDAAQPRV TGVVLFRLQA PRAKLDAFFA LEGFPTEPNS SSRAIHVHQF GDLSQGCEST GPHYNPLAVP HPQHPGDFGN FAVRDGSLWR YRAGLAASLA GPHSIVGRAV VVHAGEDDLG RGGNQASVEN GNAGRRLLACC VVGVCGPGLW ERQAREHSER KKRRRESECK AA
Sequence Length	240
Species	Human
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for SOD3 recombinant protein	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	118582275
NCBI GeneID	6649
NCBI Accession #	NP_003093.2
NCBI GenBank Nucleotide #	NM_003102.2
UniProt Accession #	P08294; Q5U781; Q6FHA2
Molecular Weight	25,851 Da
NCBI Official Full Name	extracellular superoxide dismutase
NCBI Official Synonym Full Names	superoxide dismutase 3

NCBI Official Symbol	SOD3
NCBI Official Synonym Symbols	EC-SOD
NCBI Protein Information	extracellular superoxide dismutase [Cu-Zn]
UniProt Protein Name	Extracellular superoxide dismutase [Cu-Zn]
UniProt Gene Name	SOD3
UniProt Synonym Gene Names	EC-SOD

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sod3-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114014>