Copper Transport Protein ATOX1 (ATOX1) Sheep Recombinant Protein

PRODUCT OVERVIEW

Product Name	Copper transport protein ATOX1 (ATOX1), Recombinant Protein
Full Product Name	Recombinant Sheep Copper transport protein ATOX1 (ATOX1)
Product Gene Name	ATOX1 recombinant protein
Product Synonym Gene Name	ATOX1
Sequence	MPKHEFSVDM TCEGCSNAVT RVLNKLGGVQ FDIDLPNKKV CINSEHSVDT LLETLGKTGK AVSYLGPK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
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.
Molecular Weight	7,365 Da
Sequence Positions	1-68, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9XT28
Species	Sheep
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ATOX1 recombinant protein	This gene encodes a copper chaperone that plays a role in copper homeostasis by binding and transporting cytosolic copper to ATPase proteins in the trans-Golgi network for later incorporation to the ceruloplasmin. This protein also functions as an antioxidant against superoxide and hydrogen peroxide, and therefore, may play a significant role in cancer carcinogenesis. Because of its cytogenetic location, this gene represents a candidate gene for 5q-syndrome.
Other Notes	Small volumes of ATOX1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ATOX1 purchase	MBS1356816 is a recombinant protein targeting ATOX1. Also known as Recombinant Sheep Copper transport protein ATOX1 (ATOX1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATOX1. It may not necessarily be applicable to this product.

NCBI GI #	57164249
NCBI GeneID	443451
NCBI Accession #	NP_001009429.1
UniProt Primary Accession #	Q9XT28

UniProt Related Accession #	Q9XT28
GenBank Nucleotide #	NM_001009429.1
NCBI Official Full Name	copper transport protein ATOX1
NCBI Official Symbol	ATOX1
NCBI Official Synonym Symbols	SAH
UniProt Protein Name	Copper transport protein ATOX1
UniProt Synonym Protein Names	Copper chaperone SAH; Metal transport protein ATX1
Protein Family	Copper transport protein
UniProt Gene Name	ATOX1
NCBI Protein Information	copper transport protein ATOX1
UniProt Comments for ATOX1	Binds and deliver cytosolic copper to the copper ATPase proteins. May be important in cellular antioxidant defense ().
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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