Cytochrome C Oxidase Subunit 1 (COX1) (AGOS_AMI002W) Ashbya Gossypii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cytochrome c oxidase subunit 1 (COX1) (AGOS_AMI002W), Recombinant Protein
Full Product Name	Recombinant Ashbya gossypii Cytochrome c oxidase subunit 1 (COX1)
Product Gene Name	AGOS_AMI002W recombinant protein
Product Synonym Gene Name	COX1
Product Synonym Names	Recombinant Cytochrome c oxidase subunit 1 (COX1); Cytochrome c oxidase subunit 1 EC= 1.9.3.1; Cytochrome c oxidase polypeptide I
Sequence	MYLQRWLFST NAKDIAILYF IFSTFCGLAG TAMSFIIRME LSAPGQQYLQ GQNQLFNVLV TGHTILMVFF LVMPMLIGGF GNYYLPLMIG ASDMSFARLN NISFWTLPPT LICLLTSTMV ESGTGTGWTV YPPLSSIQSH SGASVDLAIF SLHLTTISSL LGTINFIVTA LNMRTNGMTL HKMPLFTWSI LITAVMLLMS LPVLSAGVTM LLMDRNFNTS FFEVQGGGDP ILYQHLFWFF GHPEVYIMIV PTFGMMSHIV STYSKKPVFG EISMIYTMGS ISLLGFLVWS HHMYVVGLDT DTRAYFTSAT MIITIPTSIK VFSWLTTIYG GSLRLTTPML YTLSFLFLFT VGGLTGVVLA NTSLDVAFHD TYYVVTHFHY VLSLGAVFSM FAGYYYWSPT VLGLNYNEKL SQIQFWLIFL GTNIIFFPMH FLGINGMPRR IPDYPDTFTG WNLVSSFGSM MTIMSLMLFT YIIYDQLMNG LTNKVNNKSI NYMKTPDFIE SNNIFLMNTT KSSSIEFMLN SPPTIHSFNT PTIQS
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	60,173 Da
Sequence Positions	1-535
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.
Chromosome Location	Chromosome: MT; NC_005789.1 (1957..3564)
3D Structure	ModBase 3D Structure for P62514
Species	Ashbya gossypii (strain 10895 / CBS 109.51 / FGSC 9923 / NRRL Y-1056) (Yeast) (Eremothecium gossypii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for AGOS_AMI002W recombinant protein	MBS1260364 is a recombinant protein targeting AGOS_AMI002W. Also known as Recombinant Ashbya gossypii Cytochrome c oxidase subunit 1 (COX1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of AGOS_AMI002W 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AGOS_AMI002W. It may not necessarily be applicable to this product.

NCBI GI #	45239022
NCBI GeneID	2760766
NCBI Accession #	NP_987079.1
UniProt Primary Accession #	P62514
UniProt Secondary Accession #	Q75G35
UniProt Related Accession #	P62514
GenBank Nucleotide #	NC_005789.1
NCBI Official Full Name	AMI002Wp
NCBI Official Symbol	AGOS_AMI002W
UniProt Protein Name	Cytochrome c oxidase subunit 1
UniProt Synonym Protein Names	Cytochrome c oxidase polypeptide I
UniProt Gene Name	COX1
UniProt Entry Name	COX1_ASHGO
NCBI Protein Information	similar to Saccharomyces cerevisiae Q0045 (COX1); AMI002Wp
UniProt Comments for AGOS_AMI002W	Function: Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Subunits 1-3 form the functional core of the enzyme complex. CO I is the catalytic subunit of the enzyme. Electrons originating in cytochrome c are transferred via the copper A center of subunit 2 and heme A of subunit 1 to the bimetallic center formed by heme A3 and copper B. Catalytic activity: 4 ferrocytochrome c + O2 + 4 H+ = 4 ferricytochrome c + 2 H2O. Pathway: Energy metabolism; oxidative phosphorylation. Subcellular location: Mitochondrion inner membrane; Multi-pass membrane protein. Sequence similarities: Belongs to the heme-copper respiratory oxidase family.
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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