Acyl-Coenzyme A Oxidase 3, Peroxisomal (ACX3) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Acyl-coenzyme A oxidase 3, peroxisomal (ACX3), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Acyl-coenzyme A oxidase 3, peroxisomal (ACX3) , partial
Product Gene Name	ACX3 recombinant protein
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	75,676 Da
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 P0CZ23
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ACX3 recombinant protein	MBS1224234 is a recombinant protein targeting ACX3. Also known as Recombinant Arabidopsis thaliana Acyl-coenzyme A oxidase 3, peroxisomal (ACX3) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ACX3 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 ACX3. It may not necessarily be applicable to this product.

NCBI GI #	15220946
NCBI GeneID	837140
NCBI Accession #	NP_172119.1
UniProt Primary Accession #	P0CZ23
UniProt Secondary Accession #	Q9C839; Q9LKX5; Q9LLH9; Q9LMI8; Q9M7X6
UniProt Related Accession #	P0CZ23
GenBank Nucleotide #	NM_100511.3
NCBI Official Full Name	acyl-CoA oxidase 3
NCBI Official Symbol	ACX3

NCBI Official Synonym Symbols	acyl-CoA oxidase 3; ATACX3
UniProt Protein Name	Acyl-coenzyme A oxidase 3, peroxisomal
UniProt Synonym Protein Names	Medium-chain acyl-CoA oxidase; AtCX3
Protein Family	Acyl-coenzyme A oxidase
UniProt Gene Name	ACX3
UniProt Synonym Gene Names	AOX 3; Acyl-CoA oxidase 3; AtCX3
NCBI Protein Information	acyl-CoA oxidase 3
NCBI Summary for ACX3	Encodes an acyl-CoA oxidase with specificity for medium chain fatty acids.
UniProt Comments for ACX3	Catalyzes the desaturation of medium-chain acyl-CoAs to 2-trans-enoyl-CoAs. Active on C8:0- to C14:0-CoA with a maximal activity on C12:0-CoA.
Research Articles on ACX3	**1.** Data show that acx3acx4 Columbia (Col) and acx1acx3acx4 (Col) mutants are viable and that enzyme activity in these mutants is significantly reduced on a range of substrates compared to wild type.
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