Carbohydrate-Responsive Element-Binding Protein (MLXIPL) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Carbohydrate-responsive element-binding protein (Mlxipl), Recombinant Protein
Full Product Name	Recombinant Mouse Carbohydrate-responsive element-binding protein (Mlxipl) , partial
Product Gene Name	Mlxipl recombinant protein
Product Synonym Gene Name	Mlxipl
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	60,602 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 Q99MZ3
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mlxipl recombinant protein	This gene encodes a basic helix-loop-helix leucine zipper transcription factor of the Myc Max Mad superfamily. This protein forms a heterodimeric complex and binds and activates, in a glucose-dependent manner, carbohydrate response element (ChoRE) motifs in the promoters of triglyceride synthesis genes. The gene is deleted in Williams-Beuren syndrome, a multisystem developmental disorder caused by the deletion of contiguous genes at chromosome 7q11.23.
Other Notes	Small volumes of Mlxipl 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 Mlxipl purchase	MBS1312277 is a recombinant protein targeting Mlxipl. Also known as Recombinant Mouse Carbohydrate-responsive element-binding protein (Mlxipl) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	34328263
NCBI GeneID	58805
NCBI Accession #	NP_067430.2
UniProt Primary Accession #	Q99MZ3
UniProt Secondary Accession #	Q99MY9; Q99MZ0; Q99MZ1; Q99MZ2; Q9JLM5

UniProt Related Accession #	Q99MZ3
GenBank Nucleotide #	NM_021455.5
NCBI Official Full Name	carbohydrate-responsive element-binding protein isoform 1
NCBI Official Synonym Full Names	MLX interacting protein-like
NCBI Official Symbol	Mlxipl
NCBI Official Synonym Symbols	Mlx; ChREBP; WS-bHLH; Wbscr14; bHLHd14
UniProt Protein Name	Carbohydrate-responsive element-binding protein
UniProt Synonym Protein Names	MLX interactor; MLX-interacting protein-like; Williams-Beuren syndrome chromosomal region 14 protein homolog
Protein Family	Carbohydrate-responsive element-binding protein
UniProt Gene Name	Mlxipl
UniProt Synonym Gene Names	Mio; Wbscr14; ChREBP
NCBI Protein Information	carbohydrate-responsive element-binding protein
UniProt Comments for Mlxipl	Transcriptional repressor. Binds to the canonical and non-canonical E box sequences 5'-CACGTG-3'.
Research Articles on Mlxipl	**1.** Data suggest that triiodothyronine and high glucose signal coordinately to up-regulate ChREBP, Ucp1, Glut4, and Fasn in brown adipocytes; ChREBP plays role as a central regulator of brown adipocyte activity/energy metabolism. (ChREBP = carbohydrate-responsive element-binding protein; Ucp1 = uncoupling protein-1; Glut4 = facilitated glucose transporter-4; Fasn = fatty acid synthase, type-I)
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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