Forkhead Box Protein E3 (FOXE3) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Forkhead box protein E3 (Foxe3), Recombinant Protein
Full Product Name	Recombinant Mouse Forkhead box protein E3 (Foxe3)
Product Gene Name	Foxe3 recombinant protein
Product Synonym Gene Name	Foxe3
Sequence	MDAQVAFSGF PALPSLTPSG PQLPTLAGAE PGREPEEVVG GGDAEPTAVP GPGKRRRRPL QRGKPPYSYI ALIAMALAHA PGRRLTLAAI YRFITERFAF YRDSPRKWQN SIRHNLTLND CFVKVPREPG NPGKGNYWTL DPAAADMFDN GSFLRRRKRF KRAELPAPPP PPPPFPYAPF PPPPAPASAP PARLFRLDSL LGLQPEPPGP VAPEPPCCAA PDAAFPPCAA AASPPLYSPA SERLGLPAPL PAQPLLALAG SAGALGPLGA GEAYLRQPGF APGLERYL
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	30,541 Da
Sequence Positions	1-288, 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 Q9QY14
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Foxe3 recombinant protein	This intronless gene belongs to the forkhead family of transcription factors, which is characterized by a distinct forkhead domain. The protein encoded functions as a lens-specific transcription factor and plays an important role in vertebrate lens formation. Mutations in this gene are associated with anterior segment mesenchymal dysgenesis and congenital primary aphakia.
Other Notes	Small volumes of Foxe3 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 Foxe3 purchase	MBS1338060 is a recombinant protein targeting Foxe3. Also known as Recombinant Mouse Forkhead box protein E3 (Foxe3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Foxe3. It may not necessarily be applicable to this product.

NCBI GI #	7657098
NCBI GeneID	30923

NCBI Accession #	NP_056573.1
UniProt Primary Accession #	Q9QY14
UniProt Related Accession #	Q9QY14
GenBank Nucleotide #	NM_015758.2
NCBI Official Full Name	forkhead box protein E3
NCBI Official Synonym Full Names	forkhead box E3
NCBI Official Symbol	Foxe3
NCBI Official Synonym Symbols	dyl; rct; FREAC8
UniProt Protein Name	Forkhead box protein E3
Protein Family	Forkhead box protein
UniProt Gene Name	Foxe3
NCBI Protein Information	forkhead box protein E3
UniProt Comments for Foxe3	Transcription factor that controls lens epithelial cell growth through regulation of proliferation, apoptosis and cell cycle (PubMed:10652278, PubMed:10890982). During lens development, controls the ratio of the lens fiber cells to the cells of the anterior lens epithelium by regulating the rate of proliferation and differentiation (PubMed:16199865). Controls lens vesicle closure and subsequent separation of the lens vesicle from ectoderm (PubMed:10652278). Is required for morphogenesis and differentiation of the anterior segment of the eye (PubMed:17064680). Controls the expression of DNAJB1 in a pathway that is crucial for the development of the anterior segment of the eye ().
Research Articles on Foxe3	**1.** These results clearly show that the development of early-onset cataracts requires at least two mutant alleles of Foxe3(rct) and Pde6b(rd1), and another modifier associated with the severity of cataract phenotypes in Foxe3(rct) mice underlies the genetic backgrounds in mice.
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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