Forkhead Box Protein O (foxo) Drosophila Pseudoobscura Pseudoobscura Recombinant Protein

PRODUCT OVERVIEW

Product Name	Forkhead box protein O (foxo), Recombinant Protein
Full Product Name	Recombinant Drosophila pseudoobscura pseudoobscura Forkhead box protein O (foxo), partial
Product Gene Name	foxo recombinant protein
Product Synonym Gene Name	foxo
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	70,843 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 Q298W7
Species	Drosophila pseudoobscura pseudoobscura (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for foxo recombinant protein	MBS1473662 is a recombinant protein targeting foxo. Also known as Recombinant Drosophila pseudoobscura pseudoobscura Forkhead box protein O (foxo), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of foxo 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 foxo. It may not necessarily be applicable to this product.

NCBI GI #	198452262
NCBI GeneID	4801641
NCBI Accession #	XP_001358695.2
UniProt Primary Accession #	Q298W7
UniProt Related Accession #	Q298W7
GenBank Nucleotide #	XM_001358658.3
NCBI Official Full Name	uncharacterized protein Dpse_GA16248, isoform A
NCBI Official Symbol	DpseGA16248

NCBI Official Synonym Symbols	dpse_GLEANR_3889; foxo; GA16248
UniProt Protein Name	Forkhead box protein O
Protein Family	Forkhead box protein
UniProt Gene Name	foxo
NCBI Protein Information	GA16248 gene product from transcript GA16248-RA
UniProt Comments for foxo	Transcription factor involved in the regulation of the insulin signaling pathway. Consistently activates both the downstream target Thord4EBP and the feedback control target InR. Involved in negative regulation of the cell cycle, modulating cell growth and proliferation. In response to cellular stresses, such as nutrient deprivation or increased levels of reactive oxygen species, foxo is activated and inhibits growth through the action of target genes such as Thor. Foxo activated in the adult fat body can regulate lifespan in adults; an insulin peptide itself may function as one secondary messenger of insulin-regulated aging. Also regulates Lip4, homolog of human acid lipases, thereby acting as a key modulator of lipid metabolism by insulin signaling and integrates insulin responses to glucose and lipid homeostasis ().
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