Engulfment and Cell Motility Protein 3 (ELMO3) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Engulfment and cell motility protein 3 (Elmo3), Recombinant Protein
Full Product Name	Recombinant Rat Engulfment and cell motility protein 3 (Elmo3)
Product Gene Name	Elmo3 recombinant protein
Product Synonym Gene Name	Elmo3
Sequence	MAPPRNVVKI AVQMSDAIPQ LIQLDQAKPL ATVLKEVCDT WSLTHPEHYA LQFADGHRKY ITENNRSEIK NGSILCLSTA PDLKAQQLLS RLQNASREGC CEVLRNLVPL ASDMTFAQEV ISRDGLQKLS TIIENGDDLG EMLALGLRAF LELMEHGVVS WETLSISFVR KVVSYVNMNL MDASVQPLAL RLLESVTLSS PTLGQLVKSE VPLDRLLVHL QVMNQQLQTK AMALLTALLQ GASPAERKDM LDCLWKKNLR QFIYKNIIHS AAPMGDEMAH HLYVLQALTL GLLEPRMRTP LDPYSQEQRE QLQALRQAAF EPDGESLGTG LSADRRRSLC VREFRKLGFS NSSPAQDLER VPPGLLALDN MLYFSRHAPS AYSRFVLENS SREDKHECPF ARSSIQLTVL LCELLHVGEP CSETAQDFSP MFFSQDHSFH ELFCVAIQLL NKTWKEMRAT QEDFDKVMQV VREQLARTLA LKPTSLELFR TKVNALTYGE VLRLRQTERL HQEGTLAPPI LELREKLKPE LMGLIRQQRL LRLCEGMLFR KISSRRRQDK LWFCCLSPNH KVLQYGDVEE GANPPTLESL TEQLPVADIR ALLMGKDCPH VREKGSGKQN KDLYELAFSI SYDHGEEEAY LNFIAPSKRD FYLWTDGLSA LLGSTMGSEQ TRLDLEQLLT METKLRLLEL ENVPIPEHPP PVPPPPTNFN FCYDYSMTEP
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	81,659 Da
Sequence Positions	1-720, 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 Q499U2
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Elmo3 recombinant protein	This protein is similar to a C. elegans protein that functions in phagocytosis of apoptotic cells and in cell migration. Other members of this small family of engulfment and cell motility (ELMO) proteins have been shown to interact with the dedicator of cyto-kinesis 1 protein to promote phagocytosis and effect cell shape changes.
Other Notes	Small volumes of Elmo3 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 Elmo3 purchase	MBS1354612 is a recombinant protein targeting Elmo3. Also known as Recombinant Rat Engulfment and cell motility protein 3 (Elmo3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Elmo3. It may not necessarily be applicable to this product.

NCBI GI #	71795623
NCBI GeneID	291962
NCBI Accession #	NP_001025199.1
UniProt Primary Accession #	Q499U2
UniProt Related Accession #	Q499U2
GenBank Nucleotide #	NM_001030028.1
NCBI Official Full Name	engulfment and cell motility protein 3
NCBI Official Synonym Full Names	engulfment and cell motility 3
NCBI Official Symbol	Elmo3
UniProt Protein Name	Engulfment and cell motility protein 3
Protein Family	Engulfment and cell motility protein
UniProt Gene Name	Elmo3
NCBI Protein Information	engulfment and cell motility protein 3
UniProt Comments for Elmo3	Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. Acts in association with DOCK1 and CRK. Was initially proposed to be required in complex with DOCK1 to activate Rac Rho small GTPases. May enhance the guanine nucleotide exchange factor (GEF) activity of DOCK1 ().
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