Engulfment and Cell Motility Protein 2 (ELMO2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Engulfment and cell motility protein 2 (Elmo2), Recombinant Protein
Full Product Name	Recombinant Mouse Engulfment and cell motility protein 2 (Elmo2)
Product Gene Name	Elmo2 recombinant protein
Product Synonym Gene Name	Elmo2
Sequence	MPPPSDIVKV AIEWPGANAQ LLEIDQKRPL ASIIKEVCDG WSLPNPEYYT LRYADGPQLY VTEQTRNDIK NGTILQLAVS PSRAARQLME RTQSSSMETR LDAMKELAKL SADVTFATEF INMDGIIVLT RLVESGTKLL SHYSEMLAFT LTAFLELMDH GIVSWDMVSV TFIKQIAGYV SQPMVDVSIL QRSLAILESM VLNSQSLYQK IAEEITVGQL ISHLQVSNQE IQTYAIALIN ALFLKAPEDK RQDKHLNPLD LPVTDMANAF AQKHLRSIIL NHVIRGNRPI KTEMAHQLYV LQVLTFNLLE ERMMTKMDPN DQAQRDIIFE LRRIAFDAES DPSNVPGSGT EKRKAMYTKD YKMLGFTNHI NPALDFTQTP PGMLALDNML YLAKVHQDTY IRIVLENSSR EDKHECPFGR SAIELTKMLC EILQVGELPN EGRNDYHPMF FTHDRAFEEL FGICIQLLNK TWKEMRATAE DFNKVMQVVR EQITRALPSK PNSLDQFKSK LRSLSYSEIL RLRQSERMSQ DDFQSPPIVE LREKIQPEIL ELIKQQRLNR LCEGSSFRKI GNRRRQERFW HCRLALNHKV LHYGDLDDNP QGEVTFESLQ EKIPVADIKA IVTGKDCPHM KEKSALKQNK EVLELAFSIL YDPDETLNFI APNKYEYCIW IDGLSALLGK DMSSELTKSD LDTLLSMEMK LRLLDLENIQ IPEAPPPVPK EPSSYDFVYH YG
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	91,251 Da
Sequence Positions	1-732, 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 Q8BHL5
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Elmo2 recombinant protein	This protein interacts with the dedicator of cyto-kinesis 1 protein. Similarity to a C. elegans protein suggests that this protein may function in phagocytosis of apoptotic cells and in cell migration. Alternative splicing results in multiple transcript variants encoding the same protein.
Other Notes	Small volumes of Elmo2 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 Elmo2 purchase	MBS1380350 is a recombinant protein targeting Elmo2. Also known as Recombinant Mouse Engulfment and cell motility protein 2 (Elmo2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Elmo2. It may not necessarily be applicable to this product.

NCBI GI #	718551014
NCBI GeneID	140579
NCBI Accession #	NP_001289681.1
UniProt Primary Accession #	Q8BHL5
UniProt Secondary Accession #	Q5GMG3; Q8BHL9; Q8BQG1; Q8CBM8; Q8CC50; Q8CH98; Q91ZU2; Q9CT75; A2A5A6
UniProt Related Accession #	Q8BHL5
GenBank Nucleotide #	NM_001302752.1
NCBI Official Full Name	engulfment and cell motility protein 2 isoform 3
NCBI Official Synonym Full Names	engulfment and cell motility 2
NCBI Official Symbol	Elmo2
NCBI Official Synonym Symbols	CED-12; 1190002F24Rik
UniProt Protein Name	Engulfment and cell motility protein 2
UniProt Synonym Protein Names	Protein ced-12 homolog A
Protein Family	Engulfment and cell motility protein
UniProt Gene Name	Elmo2
UniProt Synonym Gene Names	Kiaa1834
NCBI Protein Information	engulfment and cell motility protein 2
UniProt Comments for Elmo2	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 ().
Research Articles on Elmo2	**1.** Ilk and ELMO2 modulate recycling endosomes in keratinocytes undergoing intercellular adhesion mediated through cell-cell contacts, including E-cadherin-based adherens junctions.
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