Protein Mom-2 (mom-2) Caenorhabditis Elegans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein mom-2 (mom-2), Recombinant Protein
Full Product Name	Recombinant Caenorhabditis elegans Protein mom-2 (mom-2)
Product Gene Name	mom-2 recombinant protein
Product Synonym Gene Name	mom-2
Sequence	WWLLSKTDTS SANSGSSPIL CKNVPGLTPQ QKRMCHENPN IIKYLISGLR SALHTCEYTF QREAWNCTLT LPGVGTSPLQ IASRESAYVY AISAAGVSHS LARACSKGLI DDCGCGETPQ GSGSVAVSQA SSRSSSDFVW AGCSDNVKFG NTFGRKFVDQ YDRQHATEPR SQMNLHNNRV GRRLLVNAMN KECKCHGVSG SCVTKTCWKV MPKFDEFASR LHQKYQLAKL VTNNDQKLTV RSSPSAGSSG RSERFARNMD ASSKQMRNEL IYLDASPNYC AIDVKDRECG ENCPNICCGR GWRTTREIVD EPCHCQFVWC CEVKCKTCKK LVERNYCL
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	40,191 Da
Sequence Positions	25-362, Full length
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 Q10459
Species	Caenorhabditis elegans
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mom-2 recombinant protein	MBS1323954 is a recombinant protein targeting mom-2. Also known as Recombinant Caenorhabditis elegans Protein mom-2 (mom-2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mom-2 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 mom-2. It may not necessarily be applicable to this product.

NCBI GI #	17562714
NCBI GeneID	179217
NCBI Accession #	NP_505154.1
UniProt Primary Accession #	Q10459
UniProt Secondary Accession #	O16146

UniProt Related Accession #	Q10459
GenBank Nucleotide #	NM_072753.5
NCBI Official Full Name	Protein mom-2
NCBI Official Symbol	mom-2
UniProt Protein Name	Protein mom-2
Protein Family	Protein
UniProt Gene Name	mom-2
NCBI Protein Information	Protein mom-2
UniProt Comments for mom-2	Ligand for members of the frizzled family of seven transmembrane receptors. Required in embryonic development for endoderm specification and the correct positioning and orientation of the mitotic spindles and division planes in blastomere cells (PubMed:9288750, PubMed:9288749, PubMed:16678095, PubMed:25344071). Involved in cleavage axis determination (PubMed:9288750). Binds to receptor tyrosine kinase cam-1 (PubMed:17942487). Together with wnt ligand lin-44, plays a role in controlling vulva precursor cell P7.p lineage orientation during vulva development, probably by acting as a ligand for tyrosine kinase receptor lin-18 (PubMed:15369677). May act redundantly with other Wnt ligands such as cwn-1 and cwn-2 to control seam cell polarity (PubMed:22022276).
Research Articles on mom-2	**1.** Zygotically expressed MOM-2 (Wnt) is responsible for two distinct cell-cell interactions as the MS blastomere produces one-third of the body wall muscles. Both the inhibitory and the activating interactions require precise spatiotemporal expression of zygotic MOM-2, which is dependent upon two distinct GLP-1 Notch signals.
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