Protein Maelstrom Homolog (MAEL) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein maelstrom homolog (MAEL), Recombinant Protein
Full Product Name	Recombinant Bovine Protein maelstrom homolog (MAEL)
Product Gene Name	MAEL recombinant protein
Product Synonym Gene Name	MAEL
Sequence	MPNRRASRNA YYFFVQEKIP ELRRRGLPVA RVADAIPYCS ADWALLKEEE KEKYAEMARE WRAAQGKDSG PSEKQKPVCT PLRKPGMLVP KQNVSPPDLS GLSLKSDQAL LGGIFYFLNI FSHGELPPHC EQRFLPCEIG CVKYSLQEGI MADFHSFINP GDSSHKIPIS HFESGHDQAT VIENLYRFIH PNPGNWPPIY CKSDDRARVN WCLKHMAKSS EIRQDLELLT VEDLVVGIYQ QKFLKEPSKT WVRSLLEVAM WDYSSNTRCK WHEENDILFC ALAVCKKIAN CISNSLATLF GIQLTEAHVP LQDYEASNSV TPKMVVLDAG RYQKLRVESP GFSHFSSSNQ EQRSNTPTGD YPSGVKISGQ NSSVRGRGIT RLLESISSSS SNIHKFSNCE TPVSPYTSPK HGYKSFSSLS
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	47,327 Da
Sequence Positions	1-420, 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 Q32KV2
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MAEL recombinant protein	MBS1387995 is a recombinant protein targeting MAEL. Also known as Recombinant Bovine Protein maelstrom homolog (MAEL). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MAEL 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 MAEL. It may not necessarily be applicable to this product.

NCBI GI #	84000365
NCBI GeneID	541073
NCBI Accession #	NP_001033282.1
UniProt Primary Accession #	Q32KV2

UniProt Related Accession #	Q32KV2
GenBank Nucleotide #	NM_001038193.2
NCBI Official Full Name	protein maelstrom homolog
NCBI Official Synonym Full Names	maelstrom spermatogenic transposon silencer
NCBI Official Symbol	MAEL
UniProt Protein Name	Protein maelstrom homolog
Protein Family	Protein maelstrom
UniProt Gene Name	MAEL
NCBI Protein Information	protein maelstrom homolog
UniProt Comments for MAEL	Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Its association with piP-bodies suggests a participation in the secondary piRNAs metabolic process. Required for the localization of germ-cell factors to the meiotic nuage ().
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