Matrix M2-1 (M2-1) Human Metapneumovirus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Matrix M2-1 (M2-1), Recombinant Protein
Full Product Name	Recombinant Human metapneumovirus Matrix M2-1 (M2-1)
Product Gene Name	M2-1 recombinant protein
Product Synonym Gene Name	M2-1
Sequence	MSRKAPCKYE VRGKCNRGSE CKFNHNYWSW PDRYLLIRSN YLLNQLLRNT DRADGLSIIS GAGREDRTQD FVLGSTNVVQ GYIDDNQSIT KAAACYSLHN IIKQLQEVEV RQARDSKLSD SKHVALHNLI LSYMEMSKTP ASLINNLKRL PREKLKKLAK LIIDLSAGAD NDSSYALQDS ESINQVQ
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	21,234 Da
Sequence Positions	1-187, 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 Q6WB97
Species	Human metapneumovirus (strain CAN97-83) (HMPV)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for M2-1 recombinant protein	MBS1330200 is a recombinant protein targeting M2-1. Also known as Recombinant Human metapneumovirus Matrix M2-1 (M2-1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of M2-1 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 M2-1. It may not necessarily be applicable to this product.

NCBI GI #	46852137
NCBI GeneID	2799940
NCBI Accession #	YP_012609.1
UniProt Primary Accession #	Q6WB97
GenBank Nucleotide #	NC_004148.2
NCBI Official Full Name	matrix protein M2-1

NCBI Official Symbol	M2
UniProt Protein Name	Matrix M2-1
UniProt Synonym Protein Names	Envelope-associated 22 kDa protein
Protein Family	Matrix M2
UniProt Gene Name	M2-1
NCBI Protein Information	M2-1
UniProt Comments for M2-1	Acts as a transcriptional elongation factor to prevent premature termination during transcription thus allowing complete synthesis of viral mRNAs. Functions also as a processivity and antitermination factor to permit transit of the polymerase through intergenic regions to access promoter distal genes. Plays a role in the association of the matrix protein with the nucleocapsid, which initiates assembly and budding ().
Research Articles on M2-1	**1.** study identified the M2-2 protein of HMPV as a negative regulator of IFN-alpha production by plasmacytoid dendritic cells and uncovered the underlying mechanism
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