Matrix Protein 1 (M) Influenza A Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Matrix protein 1 (M), Recombinant Protein
Full Product Name	Recombinant Influenza A virus Matrix protein 1 (M)
Product Gene Name	M recombinant protein
Product Synonym Gene Name	M
Sequence	MSLLTEVETY VLSIVPSGPL KAEIAQRLED VFAGKNTDLE ALMEWLKTRP ILSPLTKGIL GFVFTLTVPS ERGLQRRRFV QNALNGNGDP NNMDRAVKLY RKLKREITFH GAKEIALSYS AGALASCMGL IYNRMGAVTT ESAFGLICAT CEQIADSQHK SHRQMVTTTN PLIRHENRMV LASTTAKAME QMAGSSEQAA EAMEVASQAR QMVQAMRAIG THPSSSTGLK NDLLENLQAY QKRMGVQMQR FK
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	10,929 Da
Sequence Positions	1-252, 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 Q289M5
Species	Influenza A virus (strain A/New Zealand:South Canterbury/35/2000 H1N1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for M recombinant protein	MBS1352307 is a recombinant protein targeting M. Also known as Recombinant Influenza A virus Matrix protein 1 (M). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of M 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 M. It may not necessarily be applicable to this product.

NCBI GI #	123828554
NCBI Accession #	Q289M5.1
UniProt Primary Accession #	Q289M5
NCBI Official Full Name	Matrix protein 1
UniProt Protein Name	Matrix protein 1

UniProt Gene Name	M
UniProt Synonym Gene Names	M1
UniProt Comments for M	Plays critical roles in virus replication, from virus entry and uncoating to assembly and budding of the virus particle. M1 binding to ribonucleocapsids (RNPs) in nucleus seems to inhibit viral transcription. Interaction of viral NEP with M1-RNP is thought to promote nuclear export of the complex, which is targeted to the virion assembly site at the apical plasma membrane in polarized epithelial cells. Interactions with NA and HA may bring M1, a non-raft-associated protein, into lipid rafts. Forms a continuous shell on the inner side of the lipid bilayer in virion, where it binds the RNP. During virus entry into cell, the M2 ion channel acidifies the internal virion core, inducing M1 dissociation from the RNP. M1-free RNPs are transported to the nucleus, where viral transcription and replication can take place.
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