Matrix Protein 2 (M) Influenza B Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Matrix protein 2 (M), Recombinant Protein
Full Product Name	Recombinant Influenza B virus Matrix protein 2 (M), partial
Product Gene Name	M recombinant protein
Sequence	MLEPFQILSI CSFILSALHF MAWTIGHLNQ IKRGVNLKIR IRNPNKETIN REVSILRHSY QKEIQAKETM KEVLSDNMEI LSDHIVIEGL SAEEIIKMGE TVLEVEELH
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	12,625 Da
Sequence Positions	1-109
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 P08383
Species	Influenza B virus (strain B/Singapore/222/1979)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for M recombinant protein	MBS1223196 is a recombinant protein targeting M. Also known as Recombinant Influenza B virus Matrix protein 2 (M), partial. 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 #	85681918
NCBI Accession #	P08383.2
UniProt Primary Accession #	P08383
NCBI Official Full Name	Matrix protein 2
UniProt Protein Name	Matrix protein 2
UniProt Synonym Protein Names	BM2
UniProt Gene Name	M

UniProt Comments for M	Forms presumably a highly low-pH gated proton-selective channel. Trp-23 may function as a minimalistic gate that opens and closes the pore. When the environmental pH is lower than a threshold, the BM2 channel would be activated and selectively transport protons across the membrane from the extracellular side to the cytoplasmic side. Crucial for the uncoating process. When the virion is internalized into the endosome, the channel acidifies the virion's interior, promoting the dissociation of matrix protein 1 (M1) from the ribonucleoprotein (RNP) thus allowing the transport of the RNP from the virion into the cell's nucleus. Also plays a role in viral protein secretory pathway. Elevates the intravesicular pH of normally acidic compartments, such as trans-Golgi network, preventing newly formed hemagglutinin from premature switching to the fusion-active conformation (). Plays a crucial role in virion assembly. Expressed in the late phase of the infection ().
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