Matrix Protein 2 (M2) Influenza A Virus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Matrix protein 2 (M2), Recombinant Protein
Full Product Name	Recombinant Influenza A virus Matrix protein 2 (M2)
Product Gene Name	M2 recombinant protein
Sequence	MSLLTEVETP IRNEWGCRCN DSSDPLVVAA SIIGILHLIL WILDRLFFKC IYRLFKHGLK RGPSTEGVPE SMREEYRKEQ QNAVDADDSH FVNIELE
Host	Cell Free Expression
Form/Format	Liquid containing glycerol
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	27,849 Da
Sequence Positions	1-97aa; Full Length
3D Structure	ModBase 3D Structure for A4GBX8
Species	Influenza A virus (strain A/Brazil/11/1978 H1N1)
Product Categories/Family for M2 recombinant protein	Transmembrane Protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for M2 recombinant protein	This is a recombinant transmembrane protein expressed in a cell-free expression system.
Related Product Information for M2 recombinant protein	MBS7019652 is a recombinant protein targeting M2. Also known as Recombinant Influenza A virus Matrix protein 2 (M2). Host: Cell Free Expression.
Other Notes	Small volumes of M2 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. It may not necessarily be applicable to this product.

NCBI GI #	229890395
NCBI Accession #	A4GBX8.1
UniProt Primary Accession #	A4GBX8
NCBI Official Full Name	Matrix protein 2
UniProt Protein Name	Matrix protein 2
Protein Family	Enhancer of split M2 protein
UniProt Gene Name	M2
UniProt Entry Name	M2_I77AA

UniProt Comments for M2	Forms a proton-selective ion channel that is necessary for the efficient release of the viral genome during virus entry. After attaching to the cell surface, the virion enters the cell by endocytosis. Acidification of the endosome triggers M2 ion channel activity. The influx of protons into virion interior is believed to disrupt interactions between the viral ribonucleoprotein (RNP), matrix protein 1 (M1), and lipid bilayers, thereby freeing the viral genome from interaction with viral proteins and enabling RNA segments to migrate to the host cell nucleus, where influenza virus RNA transcription and replication occur. Also plays a role in viral proteins 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 ().
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