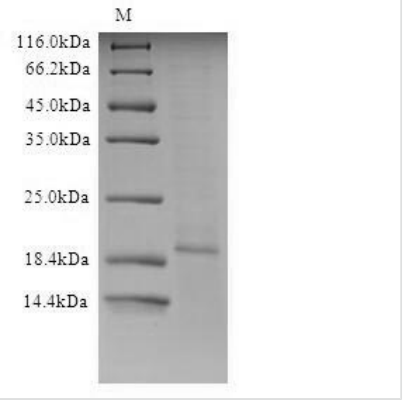
Recombinant Influenza A virus Matrix protein 2(M2)

Product Code	CSB-CF389902ILU
Relevance	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 (By similarity).
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	A4GCM0
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Transmembrane Protein
Species	Influenza A virus (strain A/USA:Phila/1935 H1N1)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSLLTEVETPIRNEWGCRCNGSSDPLVIAASIIGILHLILWILDRLLFKCIYRRFKY GLKRGPSTEGVPESMREEYRKEQQSAVDADDGHFVNIEPE
Research Area	Neuroscience
Source	in vitro E.coli expression system
Gene Names	M
Expression Region	1-97aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	15.1kDa
Protein Description	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.