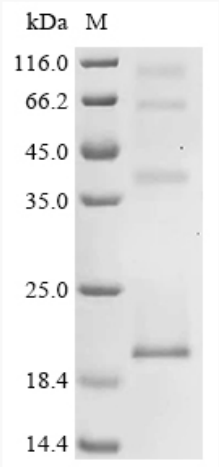
for research use only

Certificate of Analysis

Product Name	Recombinant Influenza A virus Matrix protein 2 (M)		
Catalog Number	**AAA26944**		
Expression host	*in vitro E.coli expression system*		
Tag Info	N-terminal 6xHis-tagged		
Buffer	Lyophilized from a 0.2 μ m sterile filtered 20 mM Tris-HCl, 0.15 M NaCl, 0.05% Brij78, 6% Trehalose, pH 8.0 The volume before lyophilization is 122 μ l/vial,2 vials.		
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20℃/-80℃. Our default final concentration of glycerol is 50%. Customers could use it as reference.		
Batch Number	DD05839c3g0		
Nature	Influenza A virus M-(AA 1-97)-**A4GCM0-**Full Length		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 ℃, one week after reconstitution	
	Long term	-20 to -80 ℃, twelve months from the date of receipt	
Form	Lyophilized powder		
Date of detection	2023.12.20		
Test Items	**Specifications**		**Results**
Purity	≥90%,by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		90%
Molecular Weight	Predicted band size: 15.2 kDa		Observed band size: 20&40&60&100 kDa It is speculated that the protein f orms multimer structure.

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel. Boiling SDS-treated samples may result in membrane protein aggregation. Incubation at 37 ℃ for 10 min is an effective alternative.	
Aseptic Processing	Lyophilized protein has been sterile filtered prior to lyophilization. However, the lyophilization process could potentially compromise sterility and please follow the instruction below if customers need a sterile filtered protein. Please sterile filter reconstituted lyophilized proteins with a 0.22μm filter in a clean bench (or other sterile environment) after reconstitution. Customers could use it as reference.	
Endotoxin Level	<1.0 EU per 1μg of the protein by the LAL method.	pass
Activity	Not tested	
Conclusion	pass	

for research use only

Datasheet

Product Name	Recombinant Influenza A virus Matrix protein 2 (M)
Catalog Number	**MBS7019655**
Expression host	*in vitro E.coli expression system*
Tag Info	N-terminal 6xHis-tagged
Buffer	Lyophilized from a 0.2 μ m sterile filtered 20 mM Tris-HCl, 0.15 M NaCl, 0.05% Brij78, 6% Trehalose, pH 8.0 The volume before lyophilization is 122 μ l/vial,2 vials.
Storage	Store at -20℃, for extended storage, conserve at -20℃ or -80℃.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.
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.
AA sequence	MSLLTEVETPIRNEWGCRCNGSSDPLVIAASIIGILHLILWILDRLLFKCIYRRFKY GLKRGPSTEGVPESMREEYRKEQQSAVDADDGHFVNIEPE