Matrix protein 2 Protein, Influenza A virus 1935 H1N1 (Cell-Free, His)

Cat. No.:	HY-P702369
Synonyms:	Matrix protein 2; Proton channel protein M2
Species:	Virus
Source:	E. coli Cell-free
Accession:	A4GCM0 (M1-E97)
Gene ID:	/
Molecular Weight:	15.1 kDa

PROPERTIES

AA Sequence	M S L L T E V E T P I R N E W G C R C N G S S D P L V I A A S I I G I L H L I L W I L D R L L F K C I Y R R F K Y G L K R G P S T E G V P E S M R E E Y R K E Q Q S A V D A D D G H F V N I E P E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Matrix protein 2 (M2) forms a proton-selective ion channel crucial for efficient viral genome release during virus entry. After attaching to the cell surface, the virion undergoes endocytosis, and acidification of the endosome activates M2 ion channel. Proton influx disrupts interactions among viral ribonucleoprotein (RNP), matrix protein 1 (M1), and lipid bilayers, freeing the viral genome. M2 also modulates the secretory pathway of viral proteins and elevates intravesicular pH, preventing premature fusion-active conformation of hemagglutinin. Influenza A strains' M2 is inhibited by amantadine and rimantadine, though rapid emergence of amantadine-resistant variants is common.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA