

Influenza A H1N1 (A/Puerto Rico/8/34/Mount Sinai) Matrix protein 1/M1 Protein (His)

General Information

Synonyms:	cholinergic receptor, muscarinic 1
Protein Construction:	A DNA sequence encoding the influenza A H1N1 Virus (A/Puerto Rico/8/34/Mount Sinai) M1 protein (NP_040978.1) (Ser 2-Lys 252) was expressed, with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	H1N1
Expression Host:	E. coli
Accession:	B4UPA8
Molecular Weight:	29.3 kDa (predicted); 29 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM tris, 0.5 mM DTT, 0.5 mM EDTA, 5% glycerol, 50 mM NaCl, pH 7.6. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The Influenza virus matrix protein 1 (M1) is a matrix protein of the influenza virus. M1 protein has been shown to play a crucial role in virus replication, assembly, and budding. It forms a coat inside the viral envelope. This is a bifunctional membrane/RNA-binding protein that mediates the encapsidation of RNA-nucleoprotein cores into the

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membrane envelope. M1 consists of two domains connected by a linker sequence. The N-terminal domain has a multi-helical structure. The C-terminal domain also contains an alpha-helical structure. The M1 protein is the most abundant structural protein in influenza A virus particles. M1 protein of the influenza A virus plays multiple roles in virion assembly and infection. M1 protein was a candidate antigen for a broad-spectrum influenza virus vaccine and the adjuvant chitosan significantly improved the efficacy of the M1 vaccine.

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