

Human metapneumovirus (strain CAN97-83) Matrix protein (His)

General Information

Synonyms: M protein;Matrix protein

Protein Construction: 1-254 aa

Species: HMPV

Expression Host: P. pastoris (Yeast)

Accession: Q6WB99

Molecular Weight: 28.9 kDa (predicted)

AA Sequence:

MESYLVDTYQGIPYTA AVQVDLVEKDLLPASLTIWFPLFQANTPPAVLLDQLKTLTITTLYAASQSGPILKVNAS
AQGAAMS VLPKKFEVNATVALDEYSKLEFDKLTVCVKTYVLTMTKPYGMVSKFVSSAKPVGKKTHDLIALCD
FMDLEKNTPV TIPAFIKSVSIKESATVEAAISSEADQALTQAKIAPYAGLIMIMTMNPNPKGIFKKL GAGTQVIV
ELGAYVQAESISKICKTWSHQGTRYVLKSR

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Plays a crucial role in virus assembly into filaments and budding. Early in infection, localizes in the nucleus where

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it may inhibit host cell transcription. Later in infection, traffics to the cytoplasm through the action of host CRM1 to associate with inclusion bodies, the site of viral transcription and replication. During virus assembly and budding, acts as a bridge between the nucleocapsid and the lipid bilayer.

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