

## Human metapneumovirus (strain CAN97-83) Matrix protein (His & Myc)

### General Information

Synonyms: Matrix protein;M protein

Protein Construction: 1-254 aa

Species: HMPV

Expression Host: E. coli

Accession: Q6WB99

Molecular Weight: 35.1 kDa (predicted)

AA Sequence: MESYLVDTYQGIPYTA AVQVDLVEKDLLPASLTIWFPLFQANTPPAVLLDQLKTLTITTLYAASQSGPILKVNAS  
AQGAAMS VLPKKFEVNATVALDEYSKLEFDKLTVCVKTYVLTMMKPYGMVSKFVSSAKPVGKKT HDLIALCD  
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: Tris-based buffer, 50% glycerol

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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 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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