

## VSIV (strain San Juan) Matrix Protein (His & Myc)

### General Information

Synonyms: Matrix protein;M protein

Protein Construction: 1-229 aa

Species: VSIV

Expression Host: E. coli

Accession: P03519

Molecular Weight: 33.5 kDa (predicted)

AA Sequence:

MSSLKKILGLKGGKSKKLGIAAPPYEEDTSMFYAPSAPIDKSYFGVDEMDTYDPNQLRYEKFFFTVKMTVRS  
NRPFRTYSDVAAAVSHWDHMYIGMAGKRPFYKILAFGLSSNLKATPAVLADQGGQPEYHHCGRAYLPHRM  
GKTPPMLNVPEHFRRPFNIGLYKGTIELTMTIYDDESLEAAPMIWDHFNSSKFSDFREKALMFLIVEKKASGA  
WVLDSISHFK

### 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 major role in assembly and budding of virion, by recruiting cellular partners of the ESCRT complexes that

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play a key role in releasing the budding particle from the host membrane. Condensates the ribonucleocapsid core during virus assembly.; Inhibits mRNA nuclear export through direct interaction with host RAE1-NUP98 complex, thereby preventing interferon signaling and establishment of antiviral state in infected cells. Induces cell-rounding, cytoskeleton disorganization and apoptosis in infected cell. Inhibits host transcription, possibly through interaction with host DNA repair factor IIH/TFIIH GTF2H5 subunit.

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