

## Human respiratory syncytial virus (RSV) Nucleoprotein Protein (His)

### General Information

Protein Construction:	A DNA sequence encoding the Human respiratory syncytial virus (RSV) Nucleoprotein (Q6V2F2) (Met1-Leu391) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: Met
Species:	RSV
Expression Host:	E. coli
Accession:	Q6V2F2
Molecular Weight:	44.39 kDa (predicted); 39.79 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 50 mM PB, 500 mM NaCl, pH 7.4. 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:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
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

Respiratory syncytial virus (RSV), also called human respiratory syncytial virus (hRSV), can cause infections of the lungs and respiratory tract. RSV also cause more severe infections such as bronchiolitis, an inflammation of the small airways in the lung, and pneumonia, an infection of the lungs. RSV is a negative-sense, single-stranded RNA virus. Its nucleocapsid (NC), which comprises the negative sense RNA viral genome coated by the viral nucleoprotein N, is a critical assembly that serves as template for both mRNA synthesis and genome replication.

## A DRUG SCREENING EXPERT

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Nucleoprotein (RSV) play important roles during RSV replication and transcription, thereby providing further targets for antiviral research.

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