

# HRSV (B, strain 18537) Post-fusion glycoprotein F0 Protein

Cat. No. RSV-VM1PB

## Description

|                  |   |
|------------------|---|
| Source           | Recombinant HRSV (B, strain 18537) Post-fusion glycoprotein F0 Protein is expressed from HEK293 with His tag at the C-terminus. |
| Molecular Weight | The protein has a predicted MW of 55.96 kDa. The protein migrates to 18-25 kDa and 42-50 kDa based on Bis-Tris PAGE result.     |
| Endotoxin        | Less than 1EU per µg by the LAL method.   |
| Purity           | > 95% as determined by Bis-Tris PAGE  |

## Formulation and Storage

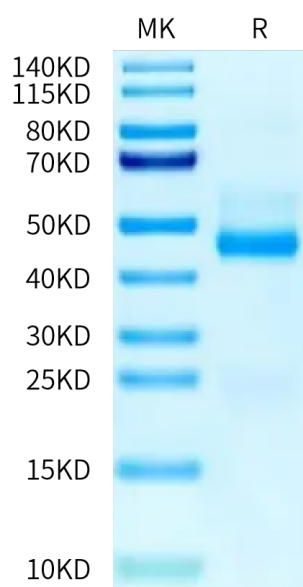
|                |  |
|----------------|--|
| Formulation    | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.   |
| Storage        | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Respiratory syncytial virus (RSV) is a highly contagious childhood pathogen of the respiratory tract and is divided into two antigenic subtypes, A and B, based on the reactivity of the F and G surface proteins to monoclonal antibodies. Surface protein F (fusion protein) is responsible for fusion of viral and host cell membranes, as well as syncytium formation between viral particles. Its sequence is highly conserved between strains. F protein exists in multiple conformational forms. In the prefusion state (PreF), the protein exists in a trimeric form and contains the major antigenic site Ø which serves as a primary target of neutralizing antibodies in the body.

## Assay Data

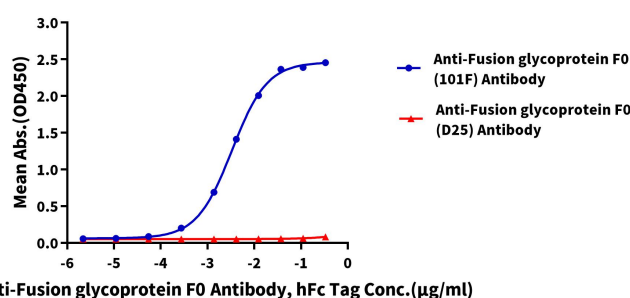
### Bis-Tris PAGE



HRSV (B, strain 18537) Post-fusion glycoprotein F0 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

RSV (B) Post-fusion glycoprotein F0, His Tag ELISA  
0.1µg RSV (B) Post-fusion glycoprotein F0, His Tag Per Well



Immobilized HRSV (B, strain 18537) Post-fusion glycoprotein F0, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-Fusion glycoprotein F0 (101F) Antibody, hFc Tag with the EC50 of 3.4ng/ml and not bind Anti-Fusion glycoprotein F0 (D25) Antibody determined by ELISA.