

Cat. No. RSV-VM1RB-UL

Description	
Source	Recombinant HRSV (B, strain 18537) Pre-fusion glycoprotein F0 Protein is expressed from HEK293 with His tag at the C-terminus.
Molecular Weight	The protein has a predicted MW of 56.50 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

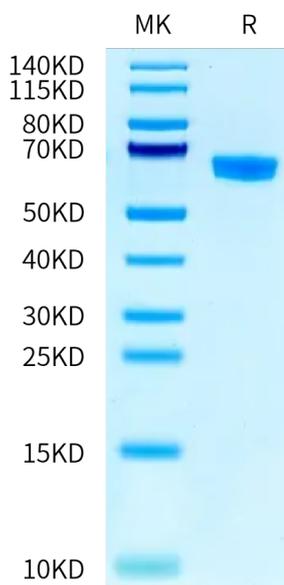
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

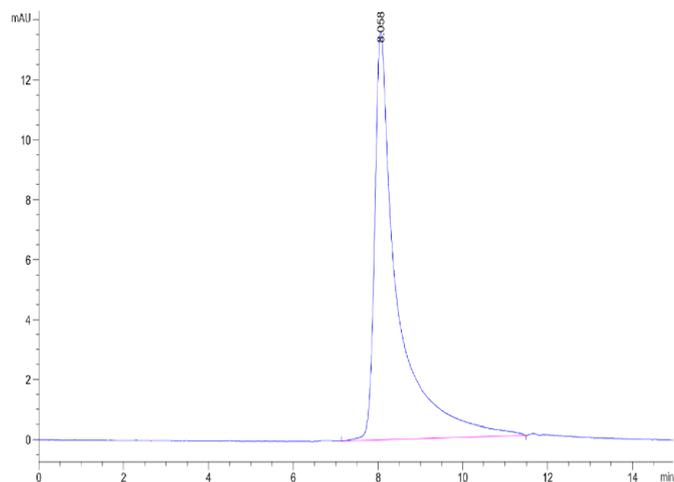
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

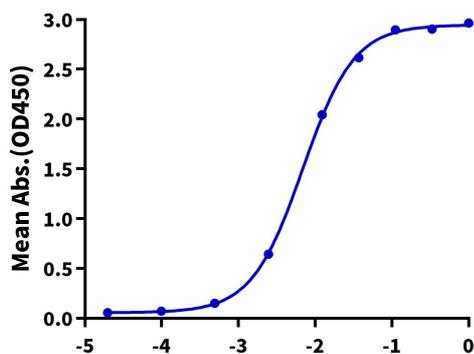


The purity of HRSV (B, strain 18537) Pre-fusion glycoprotein F0 is greater than 95% as determined by SEC-HPLC.

ELISA Data

RSV(B) Pre-fusion glycoprotein F0, His Tag ELISA

0.2µg Anti-Fusion glycoprotein F0 (D25) Antibody, hFc Tag Per Well



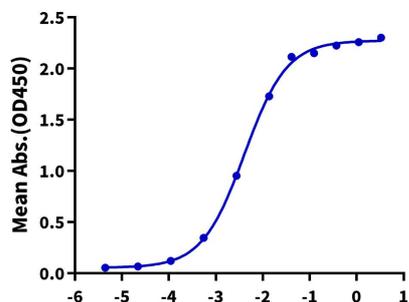
Immobilized Anti-Fusion glycoprotein F0 (D25) Antibody, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for HRSV (B, strain 18537) Pre-fusion glycoprotein F0, His Tag with the EC50 of 6.9ng/ml determined by ELISA (QC Test).

Log RSV(B) Pre-fusion glycoprotein F0, His Tag Conc.(µg/ml)

ELISA Data

RSV (B) Pre-fusion glycoprotein F0, His Tag ELISA

0.05µg RSV (B) Pre-fusion glycoprotein F0, His Tag Per Well



Immobilized HRSV (B, strain 18537) Pre-fusion glycoprotein F0, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-Fusion glycoprotein F0 (101F) Antibody, hFc Tag with the EC50 of 4.1ng/ml determined by ELISA.

Log Anti-Fusion glycoprotein F0 (101F) Antibody, hFc Tag Conc.(µg/ml)