HRSV (A, strain A2) Pre-fusion glycoprotein F0 Protein

Cat. No. RSV-VM1PR

Description

Source	Recombinant HRSV (A, strain A2) 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 56.28 kDa. Due to glycosylation, the protein migrates to 57-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

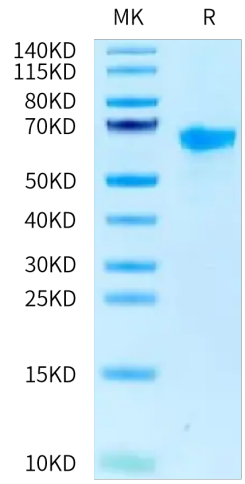
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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.

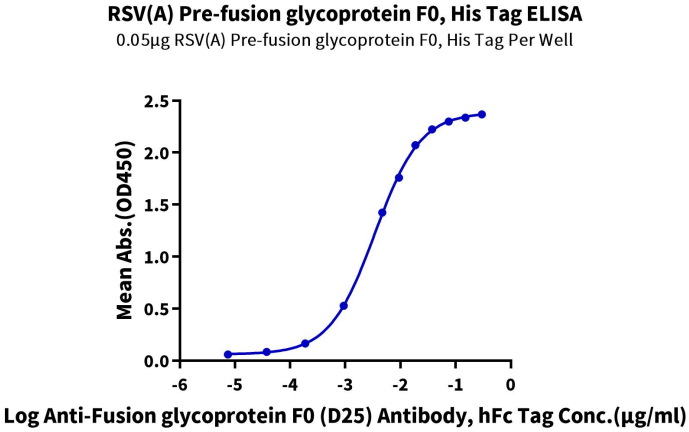
Assay Data

Tris-Bis PAGE



HRSV (A, strain A2) Pre-fusion glycoprotein F0 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data



Immobilized HRSV (A, strain A2) Pre-fusion glycoprotein F0, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-Fusion glycoprotein F0 (D25) Antibody, hFc Tag with the EC50 of 3.5ng/ml determined by ELISA (QC Test).

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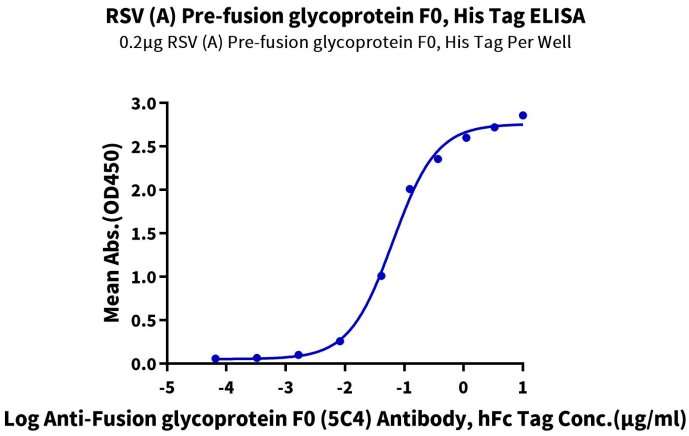
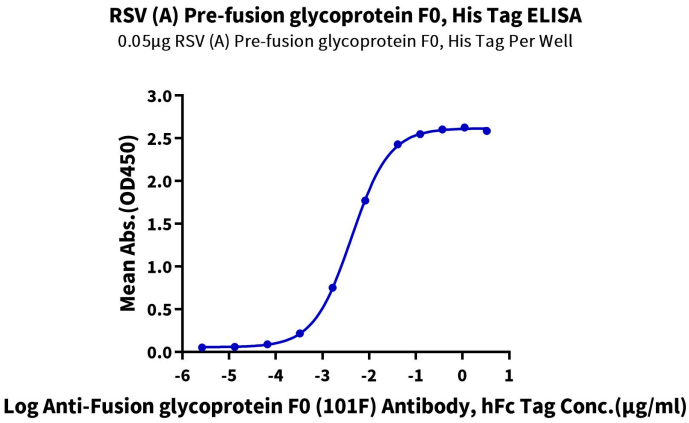
ELISA Data



Immobilized HRSV (A, strain A2) Pre-fusion glycoprotein F0, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-Fusion glycoprotein F0 (5C4) Antibody, hFc Tag with the EC50 of 64.4ng/ml determined by ELISA.

ELISA Data



Immobilized HRSV (A, strain A2) 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 4.2ng/ml determined by ELISA.