

Human respiratory syncytial virus (RSV) (A2) Prefusion glycoprotein F/ RSV-preF Protein

Catalog Number: 11049-VNAS



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

Source: RSV-F

Expression Host: CHO Cells

QC Testing

Purity: ≥ 95 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-MALS.

Bio Activity:

1. Immobilized Human respiratory syncytial virus (RSV) (A2) Prefusion glycoprotein F/ RSV-preF Protein (Cat:11049-VNAS) at 0.5 µg/mL (100 µL/well) can bind RSV specific antibody which targets antigenic site II (Palivizumab), the EC50 is 0.5 ng/mL-1.7 ng/mL.
2. Immobilized Human respiratory syncytial virus (RSV) (A2) Prefusion glycoprotein F/ RSV-preF Protein (Cat:11049-VNAS) at 0.5 µg/mL (100 µL/well) can bind RSV specific antibody which targets antigenic Site Ø (Nirsevimab), the EC50 is 0.45 ng/mL-1.35 ng/mL (Routinely tested).
3. Immobilized Human respiratory syncytial virus (RSV) (A2) Prefusion glycoprotein F/ RSV-preF Protein (Cat:11049-VNAS) at 0.5 µg/mL (100 µL/well) can bind prefusion specific antibody which targets antigenic Site V (Suptavumab), the EC50 is 0.05 ng/mL-0.15 ng/mL (Routinely tested).
4. Nirsevimab-derived anti-RSV-preF antibody, Human IgG1 captured on Protein A chip, can bind Human respiratory syncytial virus (RSV) (A2) Prefusion glycoprotein F/ RSV-preF Protein (Cat. No. 11049-VNAS) with an affinity constant of 6.290 nM as determined in an SPR assay (Biacore 8K) (Routinely tested).

Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal:

Molecular Mass:

The recombinant RSV (A2) Prefusion glycoprotein F has a predicted molecular mass of 54.5 kDa. It migrates as an approximately 57.6 kDa band in SDS-PAGE under reducing conditions. The molecular weight of this protein is around 160 kDa -190kDa verified by SEC-MALS.

Formulation:

Lyophilized from sterile 25 mM Sodium Citrate, 200 mM NaCl, 0.02% Tween80, pH 6.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

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Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:

