

Recombinant HRSV (A) Glycoprotein (GP) protein, His-tagged

Cat. No. GP-316H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant HRSV (A) Glycoprotein (GP) protein (His67-Arg297), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	HRSV
Source	HEK293
ProteinLength	231
Description	Human respiratory syncytial virus (HRSV) is the most common etiological agent of acute lower respiratory tract disease in infants and can cause repeated infections throughout life. Human respiratory syncytial virus A (strain Long) major surface glycoprotein G (RSV-G), a member of the pneumoviruses glycoprotein G family, is also known as attachment glycoprotein G and membrane-bound glycoprotein (mG), which contains a linear heparin binding domain essential for virus attachment to the host. Concretely speaking, RSV-G can attache the virion to the host cell membrane by interacting with heparan sulfate, initiating the infection. Furthermore, RSV-G can also interact with host CX3CR1, the receptor for the CX3C chemokine fractalkine, to modulate the immune response and facilitate infection. Unlike the other paramyxovirus attachment proteins, RSV-G lacks both neuraminidase and hemagglutinating activities.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 26.2 kDa. The protein migrates as 46-90 kDa

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under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin Less than 1.0 EU per ug by the LAL method.

Purity >90% as determined by SDS-PAGE.

Storage

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20 centigrade to -70 centigrade for 12 months in lyophilized state;
- 70 centigrade for 3 months under sterile conditions after reconstitution.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name GP

Official Symbol GP

Synonyms HRSVgp07

Gene ID 1489824

Protein Refseq NP_056862.1

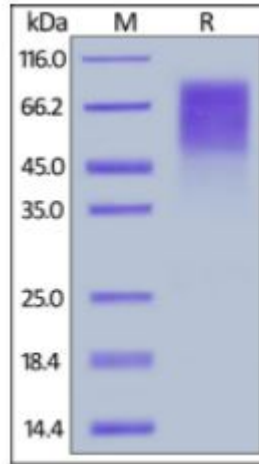
UniProt ID P20895

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SDS-PAGE of GP-316H



HRSV (A) Glycoprotein G, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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