

# Recombinant Human Attachment Glycoprotein, His-tagged

Cat. No. G-716H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human Attachment Glycoprotein encoding the extracellular domain of human RSV glycoprotein G (AAB59857.1) (His 67- Arg297) with a C-terminal His tag was expressed in *Human Cells (HEK293)*.

**Species** Human

**Source** HEK293

**ProteinLength** 67-297 a.a.

**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. It is classified within the genus pneumovirus of the family paramyxoviridae. Like other members of the family, HRSV has two major surface glycoproteins (G and F) that play important roles in the initial stages of the infectious cycle. HRSV G protein is a type II glycoprotein of 289-299 amino acids (depending on the virus strain) with a signal/anchor hydrophobic domain and is extensively modified by the addition of both N- and O-linked oligosaccharides to achieve the mature form of 80-90 kDa. The C-terminal ectodomain of the G protein has a central region and four cysteines which are conserved in all HRSV isolates and have been proposed as the putative receptor binding site. The G protein mediates attachment of the virus to the host cell membrane by interacting with heparan sulfate, initiating the infection.

**Molecular Mass** The secreted recombinant human RSV-G comprises 242 amino acids with a

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predicted molecular mass of 26.7 kDa. As a result of highly glycosylation, rh RSV-G migrates as an approximately 80-90 kDa band in SDS-PAGE under reducing conditions.

**Predicted N Terminal** His 67.

**Purity** > 95% as determined by SDS-PAGE.

**Formulation** Supplied as a 0.2µm filtered solution of PBS, pH7.4.

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

**Endotoxin** <1.0 EU per 1µg cytokine as determined by the LAL method.

**Reconstitution** Follow the instructions on the vial. Centrifuge the vial at 4°C before opening to recover the entire contents.

**Storage** Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage and be used as soon as possible. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** [G attachment glycoprotein \[ Human respiratory syncytial virus \]](#)

**Synonyms** G; attachment glycoprotein

**Gene ID** [1489824](#)

**Protein Refseq** [NP\\_056862](#)

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