

Recombinant Respiratory Syncytial Virus A Glycoprotein G, His-tagged

Cat. No. RES-550 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

This Human RSV (A) glycoprotein G comprises His 67-Arg 297 (Accession # P20895) from the Long strain, and is fused with a polyhistidine tag at the C-terminus. The total calculated MW is 26.2 kDa. The RSV A gG protein is expressed in HEK293 cells, and reduced protein migrates as a band of 60-94 kDa.

Tag

His

Background

Human Respiratory Syncytial Virus (RSV) is a single-stranded RNA virus, which was first isolated in 1956 from a laboratory chimpanzee with a respiratory illness and was later discovered to be of human origin. RSV consists of two antigenic subtypes, A and B. Subtype B tend to produce asymptomatic infections, whilst the more severe illnesses which predominate during outbreaks are associated with subtype A strains. RSV is the leading cause of lower respiratory tract infections, including pneumonia and bronchiolitis in young infants. Approximately two thirds of infants are infected with RSV within their first year and 90% have been infected by the age of 2. It may cause mortality or morbidity in the elderly as well as immunodeficient individuals. It is the most common pathogen leading to hospitalization in young children up to the age of 5.

The virion of Respiratory Syncytial Virus (RSV) contains three surface glycoproteins, the attachment protein G, fusion protein F, and the small hydrophobic SH protein. Glycoprotein G is a type II transmembrane glycoprotein and is the major RSV attachment protein. It contains a single hydrophobic region which serves as a signal peptide and also as a membrane anchor. The structure and function of RSV

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glycoproteins has been reviewed by McClellan et al (2013).

Purity Greater than 90% purity by SDS-PAGE

Formulation PBS, pH7.4.

Notes This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.

Type Recombinant

ClassID 1 Infectious Disease

GENE INFORMATION

Synonyms Respiratory Syncytial Virus A Glycoprotein G (RSV A gG)

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