

Recombinant Respiratory Syncytial Virus A Glycoprotein G, hFc-tagged

Cat. No. RES-551 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

This Human RSV (A) glycoprotein G comprises amino acids 67-298 of the major glycoprotein of RSV and contains a C-terminal human IgG1 Fc-tag with a 15 AA glycine-serine linker.

Tag

Fc

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

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Purity	Greater than 95% purity
Formulation	DPBS pH 7.4, sterile filtered
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.
Storage	Short Term Storage: +2 centigrade to +8 centigrade Long Term Storage: -80 centigrade
Concentration	1.07 mg/mL
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

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