

**Glycoprotein (G) from Human Respiratory Syncytial Virus (RSV), Strain A2, with C-Terminal Histidine Tag, Recombinant from HEK293 Cells**

**Catalog No. NR-59001**

**Sino Biological Catalog No. 40830-V08H**

**For research use only. Not for use in humans.**

**Contributor and Manufacturer:**

Sino Biological, Wayne, Pennsylvania, USA

**Product Description:**

A recombinant form of the glycoprotein (G) from Human Respiratory Syncytial Virus (RSV), Strain A2, (UniProt: [P03423](#)) (Ser64-Gln298), with a C-terminal poly-histidine tag, was expressed in human embryonic kidney HEK293 cells and purified by nickel affinity chromatography.<sup>1</sup> The predicted protein sequence is shown in Figure 1. NR-59001 comprises 246 amino acids with a predicted molecular weight of 26,966 daltons.<sup>1</sup> It migrates as an approximately 108 and 56 kDa band in SDS-PAGE under reducing conditions.

**Material Provided:**

Each vial contains approximately 50 micrograms powder of purified recombinant protein lyophilized from sterile PBS, 5% trehalose, 5% mannitol and 0.01% Tween-80 at pH 7.4.

**Packaging/Storage:**

NR-59001 was packaged aseptically in cryovials. The product is provided at room temperature and should be stored under sterile conditions at -20°C to -80°C immediately upon arrival. It is recommended that the protein be aliquoted for optimal storage. Freeze-thaw cycles should be avoided. To reconstitute, it is recommended that 200 µl of sterile water be added to the vial to prepare a stock solution of 0.25 micrograms per milliliter.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Glycoprotein (G) from Human Respiratory Syncytial Virus (RSV), Strain A2, with C Terminal Histidine Tag, Recombinant from HEK293 Cells, NR-59001.”

**Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

**Disclaimers:**

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**References:**

1. Lei, C., Personal Communication.

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Figure 1: Predicted Protein Sequence

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1      SANHKVTPTT AIIQDATSQI KNTTPTYLTQ NPQLGISPSN PSEITSQITT
51     ILASTTPGVK STLQSTTVKT KNTTTTQTQP SKPTTKQRQN KPPSKPNNDF
101    HFEVFNFVPC SICSNNPTCW AICKRIPNKK PGKKTITTKPT KKPTLKTTKK
151    DPKPQTTKSK EVPTTKPTEE PTINTTKTNI ITLLLSNTT GNPELTSQME
201    TFHSTSSEGN PSPSQVSTTS EYPSQPSSPP NTPRQAHHHH HHHHHH
  
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G protein – **Residues 1 to 235** [(represents amino acid residues 64 to 298) (UniProt: [P03423](#))]  
 Poly-histidine tag – Residues 237 to 246