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.[1] The predicted protein sequence is shown in Figure 1. NR-59001 comprises 246 amino acids with a predicted molecular weight of 26,966 daltons.[1] It migrates as an approximately 108 and 56 kDa band in SDS-PAGE under reducing conditions.

Material Provided:
Each vial contains approximately 50 µg of purified recombinant protein lyophilized from sterile PBS, pH 7.4., 5% trehalose, 5% mannitol and 0.01% Tween-80.

Packaging/Storage:
NR-59001 was packaged aseptically in glass vials. 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 µg/mL.

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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

Disclaimers:
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References:
1. Lei, C., Personal Communication.

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BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

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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 PGKKTTTKPT KKPTLKTTKK
151   DPKPQTTKSK EVPTTKPTEE PTINTTKTNI ITTLLTSNTT 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

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www.beiresources.org

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