# Product Information Sheet for NR-31098

## G Protein with C-Terminal Histidine Tag from Respiratory Syncytial Virus, B1, Recombinant from Baculovirus

## Catalog No. NR-31098

This reagent is the tangible property of the U.S. Government.

## For research use only. Not for human use.

**Contributor:**
BEI Resources

**Manufacturer:**
Chesapeake PERL, Inc.

**Product Description:**
A recombinant form of the secreted isoform of the G glycoprotein from respiratory syncytial virus, B1 containing a C-terminal histidine tag was produced by baculovirus infection of *Trichoplusia ni* insect larvae and purified by standard chromatographic methods.[1,2] The predicted protein sequence is shown in Table 1.

**Material Provided:**
Each vial contains approximately 0.1 mg of purified recombinant G protein in 25 mM MES buffer (pH 6.5) containing 1M NaCl, 0.1% Triton X-100, 40 mM imidazole and 200 mM protein stabilizers. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

**Packaging/Storage:**
NR-31098 was packaged aseptically, in screw-capped plastic cryovials. This product is provided on dry ice and should be stored at -80°C or colder. Before opening, tap the vial gently to bring all material to the bottom of the tube. Repeated freeze-thaw cycles should be avoided.

**Citation:**
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: G Protein with C-Terminal Histidine Tag from Respiratory Syncytial Virus, B1, Recombinant from Baculovirus, NR-31098."

**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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

**Disclaimers:**
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**References:**
1. O'Connell, K. P., et al. "Production of a Recombinant Antibody Fragment in Whole Insect Larvae." Mol. Biotechnol. 36 (2007): 44-51. PubMed: 17827537.
2. Personal Communication, C-PERL, Inc.

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| Table 1 - Predicted Protein Sequence | | | | | |
|---|---|---|---|---|---|
| 1 | NHKVTLTTVT | VQTIKNHTEK | NITTYLTQVP | PERVSSSKQP | TTTSPIHTNS |
| 51 | ATTSPNTKSE | THHTTAQTKG | RTTTSTQTNK | PSTKPRLKNP | PKKPKDDYHF |
| 101 | EVFNFVPCSI | CGNNQLCKSI | CKTIPSNKPK | KKPTIKPTNK | PTTKTTNKRD |
| 151 | PKTPAKTTKK | ETTTNPTKKP | TLTTTERDTS | TSQSTVLDTT | TLEHTIQQQS |
| 201 | LHSTTPENTP | NSTQTPTASE | PSTSNSTQNT | QSHAHHHHHH | |

G Protein – Residues 1 to 234
His Tag – Residues 235 to 240

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