

Respiratory syncytial virus A Major surface glycoprotein G (G) Recombinant Protein | G recombinant protein

Recombinant Human respiratory syncytial virus A Major surface glycoprotein G (G), partial

CATALOG # AAA18586	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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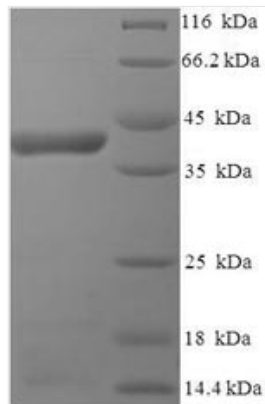
PRODUCT SYNONYMS

Respiratory syncytial virus A Major surface glycoprotein G (G); Recombinant Human respiratory syncytial virus A Major surface glycoprotein G (G); partial; Attachment glycoprotein G; Membrane-bound glycoprotein; mG; G recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	67-298aa; Partial
Sequence	HKVTPTTII QDATSIKNT TPTYLTQNPQ LGISPSNPSE ITSQITTLA STTPGVKSTL QSTTVKTKNT TTTQTQPSKP TTKQRQNKPP SKPNNDHFEE VFNFVPCISIC SNNPTCWAIC KRIPNKKPGK KTTTKPTKKP TLKTTKKDPK PQTTKSKEVP TTKPTEEPTI NTTKTNIITT LLTSNTTGNP ELTSQMETFH STSSEGNPSP SQVSTTSEYP SQPSSPPNTP RQ
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for G recombinant protein	Attaches the virion to the host cell membrane by interacting with heparan sulfate, initiating the infection. Interacts with host CX3CR1, the receptor for the CX3C chokine fractalkine, to modulate the immune response and facilitate infection. Unlike the other paramyxovirus attachment proteins, lacks both neuraminidase and haagglutinating activities. Secreted glycoprotein G helps RSV escape antibody-dependent restriction of replication by acting as an antigen decoy and by modulating the activity of leukocytes bearing Fcgamma receptors.
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References	Nucleotide sequence of the G protein gene of human respiratory syncytial virus reveals an unusual type of viral membrane protein.Wertz G.W., Collins P.L., Huang Y., Gruber C., Levine S., Ball L.A.Proc. Natl. Acad. Sci. U.S.A. 82:4075-4079(1985) A cold-passaged, attenuated strain of human respiratory syncytial virus contains mutations in the F and L genes.Connors M., Crowe J.E. Jr., Firestone C.Y., Murphy B.R., Collins P.L.Virology 208:478-484(1995) The membrane-associated and secreted forms of the respiratory syncytial virus attachment glycoprotein G are synthesized from alternative initiation codons.Roberts S.R., Lichtenstein D., Ball L.A., Wertz G.W.J. Virol. 68:4538-4546(1994) Identification of a linear heparin binding domain for human respiratory syncytial virus attachment glycoprotein G.Feldman S.A., Hendry R.M., Beeler J.A.J. Virol. 73:6610-6617(1999) The fusion glycoprotein of human respiratory syncytial virus facilitates virus attachment and infectivity via an interaction with cellular heparan sulfate.Feldman S.A., Audet S., Beeler J.A.J. Virol. 74:6442-6447(2000) CX3C chemokine mimicry by respiratory syncytial virus G glycoprotein.Tripp R.A., Jones L.P., Haynes L.M., Zheng H., Murphy P.M., Anderson L.J.Nat. Immunol. 2:732-738(2001) The respiratory syncytial virus small hydrophobic protein is phosphorylated via a mitogen-activated protein kinase p38-dependent tyrosine kinase activity during virus infection.Rixon H.W., Brown G., Murray J.T., Sugrue R.J.J. Gen. Virol. 86:375-384(2005) Interaction between the respiratory syncytial virus G glycoprotein cytoplasmic domain and the matrix protein.Ghildyal R., Li D., Peroulis I., Shields B., Bardin P.G., Teng M.N., Collins P.L., Meanger J., Mills J.J. Gen. Virol. 86:1879-1884(2005) The RSV F and G glycoproteins interact to form a complex on the surface of infected cells.Low K.W., Tan T., Ng K., Tan B.H., Sugrue R.J.Biochem. Biophys. Res. Commun. 366:308-313(2008) The secreted form of respiratory syncytial virus G glycoprotein helps the virus evade antibody-mediated restriction of replication by acting as an antigen decoy and through effects on fc receptor-bearing leukocytes.Bukreyev A., Yang L., Fricke J., Cheng L., Ward J.M., Murphy B.R., Collins P.L.J. Virol. 82:12191-12204(2008)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	138294
UniProt Accession #	P03423; Q77YB0
Molecular Weight	29.3 kDa
NCBI Official Full Name	Major surface glycoprotein G
UniProt Protein Name	Major surface glycoprotein G
UniProt Gene Name	G
UniProt Synonym Gene Names	mG
UniProt Entry Name	GLYC_HRSVA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.