

EBV (HHV-4) gH/gL/gp42 protein complex

CATALOG NUMBER: HHV4-gHL42-23P

Introduction

Herpesviruses have an envelope and an outer lipid bilayer which contains up to twelve surface glycoproteins. For infectivity to be attained, the double stranded DNA genome of EBV must enter the host cell through means of fusion of its envelope with the cellular membrane or via endocytosis.

Epstein-Barr virus (EBV) can infect both B cells and epithelial cells. The mechanisms for entering these two cells are different. The viral three-part glycoprotein complexes of gH/gL/gp42 mediate B cell membrane fusion.

Description

Recombinant EBV gH, gL and gp42 proteins expressed and purified from 293 cells

Viral Protein

C-terminal 6xhis-tagged recombinant EBV gH protein (amino acid 19-678) (GenBank accession#: P03231) in complex with gL (aa 23-137)(GenBank accession#: CAD53428) and gp42 (aa 34-223) (GenBank accession#: YP_401672)

Applications

Western blot standard, antibody ELISA, immunogen, etc.

Storage

Store at -20 °C; Stable for two weeks from the date of shipment when kept at 4 °C. Non-hazardous. No MSDS required.

Concentration

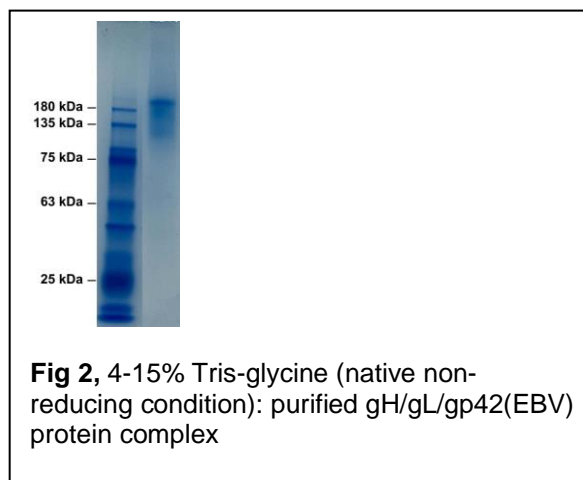
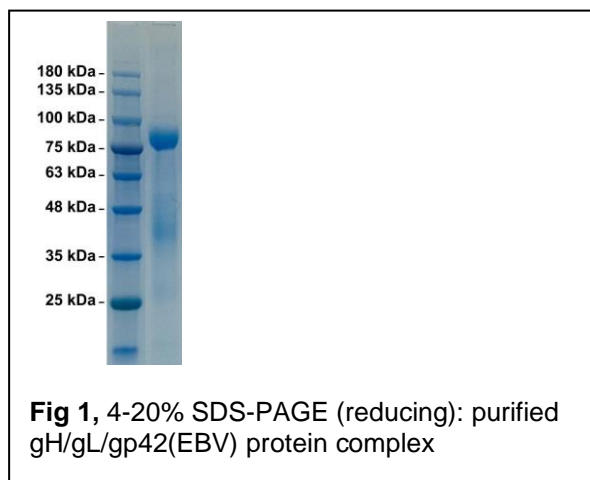
50 µg (1 µg/µl) in PBS

Endotoxin Level

<0.01 EU per 1 µg of the protein by LAL test

Purity

> 95% pure by 10% SDS-PAGE gel



EBV glycoprotein H SEQ:

SLSEVKLHLDIEGHASHYTIPTWTELMAKVPGLSPEALWREANVTEDLASMLNRYKLIYKTSGLGIALAEPVDIPAVSEGSMQVDASKVHPGV
ISGLNSPACMLSAPLEKQLFYIIGTMLPNTRPHSYVVFYQLRCHLSYVALSINGDKFYTGAMTSKFLMGTYKRVTEKGEHVLSLVFGKTKDL
PDLRGPFSSYPSLTSAQSGDYSLVIVTTFVHYANFHNYFVPNLKMFSRAVTMTAASYARYVLQKLVLLEMKGCCREPELDTETLTMFEVSV
FFKVGHAVGETGNGCVDLRWLAKSFFELTVLKDIIGICYGATVKGMQSYGLERLAAMLMTATVMEELGHLTTEKQEYALRLATVGYPKAGVYS
GLIGGATSVLLSAYNRHPLFQPLHTVMRETLFIGSHVVLRELRLNVTQGPNLALYQLLSTALCSALEIGEVLRLGALGTESGLFSPCYLSLR
FDLTRDKLLSMAPQEATLDQAAVSNAVDGFLGRLSLEREDRDAWHLPAYKCVDRDKVLMIIPLINVTFIISSDREVRGSALYEASTTYLSS
LFLSPVIMNKCSQGAVAGEPRQIPKIQNFRTRTQKSCIFCGFALLSYDEKEGLETTTYITSQEVQNSILSSNYFDFDNLHVHYLLLTNGTVME
IAGLYEERA

EBV glycoprotein L SEQ:

NWAYPCCHVTQLRAQHLLALENISDIYLVSNQTCDFSLASLNSPKNGSNQLVIRSCANGLNVVSFFISILKRSSSALTGHLR
ELLTTLETLYGSFVSVDLFGANLNRYAWHRGG

EBV Envelope Glycoprotein (gp42) (aa 34-223) SEQ:

GGRVAAAAITWVPKPNVEVWPVDP PPPVNFNKTAEQEYGDKEVKLPHWTPTLHTFQVPQNYTKANCTYCNTREYTF SYKGCCF
YFTKKKHTWNGCFQACAELYPCTYFYGPTPDILPVVTRNLNAIESLWVG VYRVGEGNWTSLDGGTFKVYQIFGSHCTYVSKFS
TVPVSHHECSFLKPCLCVSRQNS

