



## Source

HHV-5 (strain AD169) Glycoprotein H&L, His Tag(GHL-H5243) is expressed from human 293 cells (HEK293). It contains AA Val 31 - Arg 278 & Arg 24 - Leu 720 (Accession # [P12824](#) & [P16832](#) ).

Predicted N-terminus: His

## Molecular Characterization

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 109.5 kDa. The protein migrates as 110-130 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

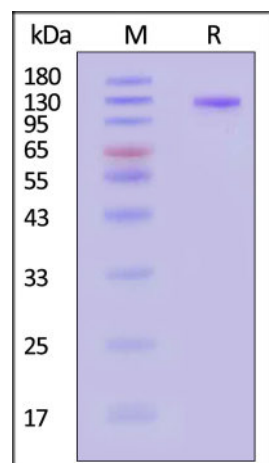
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

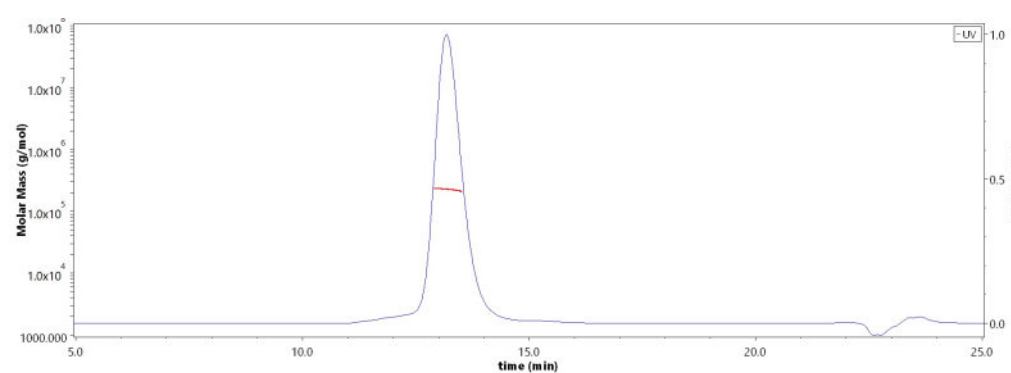
## SDS-PAGE



HHV-5 (strain AD169) Glycoprotein H&L, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

## SEC-MALS



The purity of HHV-5 (strain AD169) Glycoprotein H&L, His Tag (Cat. No. GHL-H5243) is more than 90% and the molecular weight of this protein is around 210-250 kDa verified by SEC-MALS.

[Report](#)

Discounts, Gifts,  
and more!

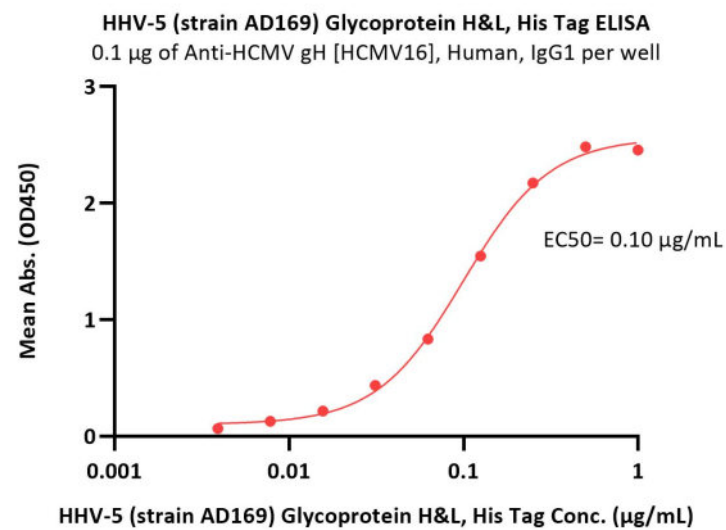
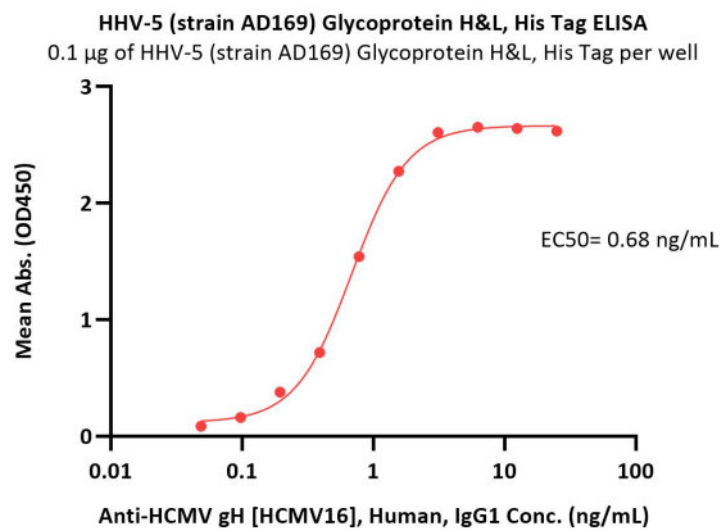


# HHV-5 (strain AD169) Glycoprotein H&L, His Tag (MALS verified)

Catalog # GHL-H5243



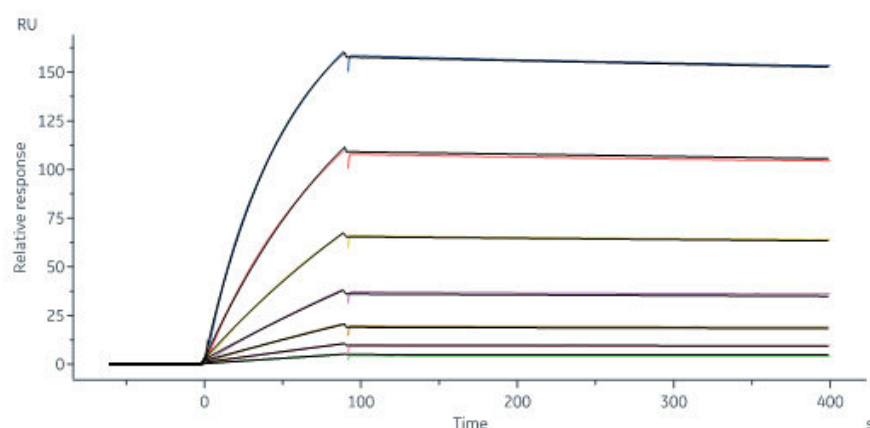
BIOSYSTEMS  
**Acro**



Immobilized HHV-5 (strain AD169) Glycoprotein H&L, His Tag (Cat. No. GHL-H5243) at 1 µg/mL (100 µL/well) can bind Anti-HCMV gH [HCMV16], Human, IgG1 with a linear range of 0.1-2 ng/mL (QC tested).

Immobilized Anti-HCMV gH [HCMV16], Human, IgG1 at 1 µg/mL (100 µL/well) can bind HHV-5 (strain AD169) Glycoprotein H&L, His Tag (Cat. No. GHL-H5243) with a linear range of 0.004-0.25 µg/mL (Routinely tested).

## Bioactivity-SPR



Anti-HCMV gH [HCMV16] captured on Protein A Chip can bind HHV-5 (strain AD169) Glycoprotein H&L, His Tag (Cat. No. GHL-H5243) with an affinity constant of 1.49 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

## Background

Human cytomegalovirus (HCMV), a prototypical beta-herpes virus, is a major cause of morbidity and mortality in immunocompromised transplant recipients and congenitally infected fetuses. Different HCMV glycoprotein complexes are capable of mediating entry through interaction with cell-specific receptors on a panel of host cells. The pentamer (gH/gL/UL128/UL130/UL131A) mediates HCMV entry into epithelial, endothelial, and myeloid cells by its binding to neuropilin 2 (Nrp2). The trimer (gH/gL/gO) can mediate infection of all cell types by binding to platelet-derived growth factor-alpha (PDGFR $\alpha$ ). Both pentamer and trimer need to interact with the glycoprotein B (gB), the fusogenic protein, to trigger the virus and host cell membrane fusion.

## Clinical and Translational Updates

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