

### Synonym

Glycoprotein C (HSV-2)

### Source

HSV-2 (strain 333) Envelope Glycoprotein C (gC), His Tag(GLC-V52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 102 - Glu 446 (Accession # [P06475](#) ).

Predicted N-terminus: Leu 102

### Molecular Characterization

Glycoprotein C (HSV-2)(Leu 102 - Glu 446) P06475	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 39.8 kDa. The protein migrates as 52-62 kDa 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

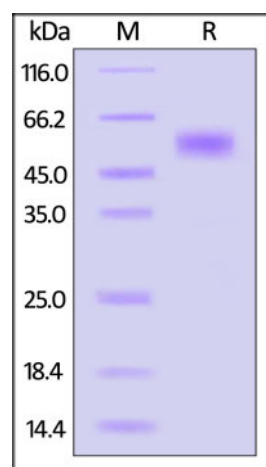
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

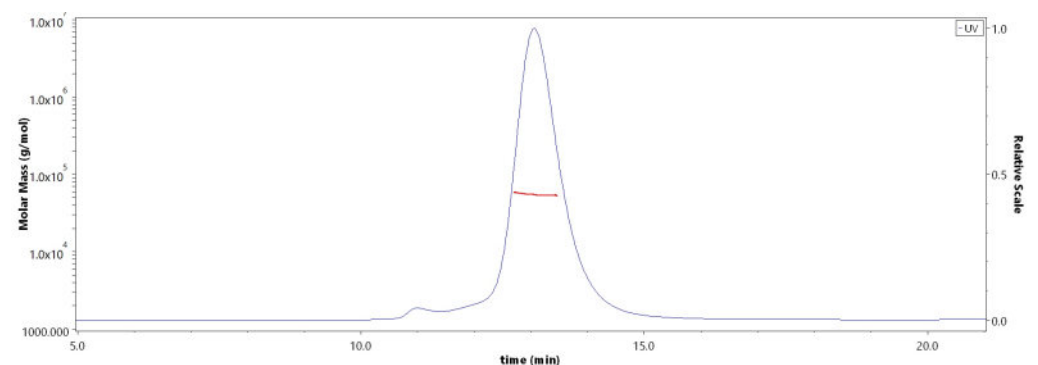
### SDS-PAGE



HSV-2 (strain 333) Envelope Glycoprotein C (gC), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

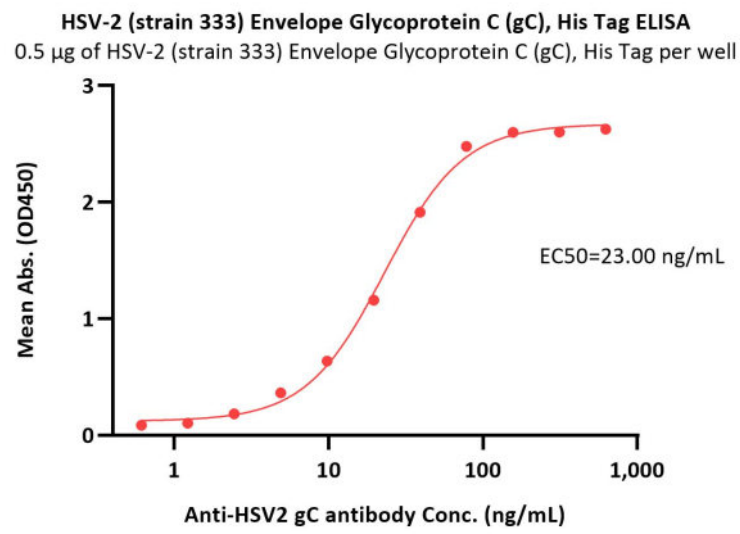
### Bioactivity-ELISA

### SEC-MALS



The purity of HSV-2 (strain 333) Envelope Glycoprotein C (gC), His Tag (Cat. No. GLC-V52H3) is more than 90% and the molecular weight of this protein is around 45-60 kDa verified by SEC-MALS.

[Report](#)



Immobilized HSV-2 (strain 333) Envelope Glycoprotein C (gC), His Tag (Cat. No. GLC-V52H3) at 5 µg/mL (100 µL/well) can bind Anti-HSV2 gC antibody with a linear range of 0.6-78 ng/mL (QC tested).

### Background

Herpesvirus infections are widely spread throughout the world population. Herpes simplex virus (HSV) belongs to the  $\alpha$ -herpesvirus subfamily. There are two main types of HSV, HSV-1 and HSV-2, which infect humans. HSV-2 mainly causes genital lesions, whereas HSV-1 is involved in both oral and genital infections. Glycoprotein C (gC) is a structural component of the herpes simplex virus type 2 (HSV-2) envelope that mediates binding of the virus to cell surface heparan sulfate or chondroitin sulfate. Also plays a role in host immune evasion by inhibiting the host complement cascade activation (By similarity).

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.