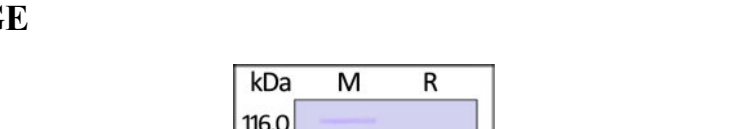
HSV-2 (strain 333) Envelope Glycoprotein C (gC), His Tag (MALS verified)

Catalog # GLC-V52H3

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



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

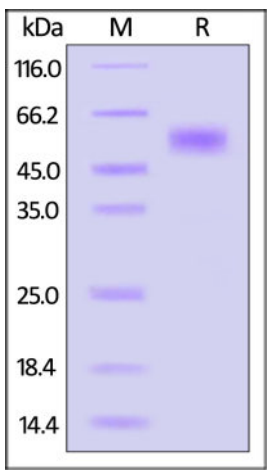
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

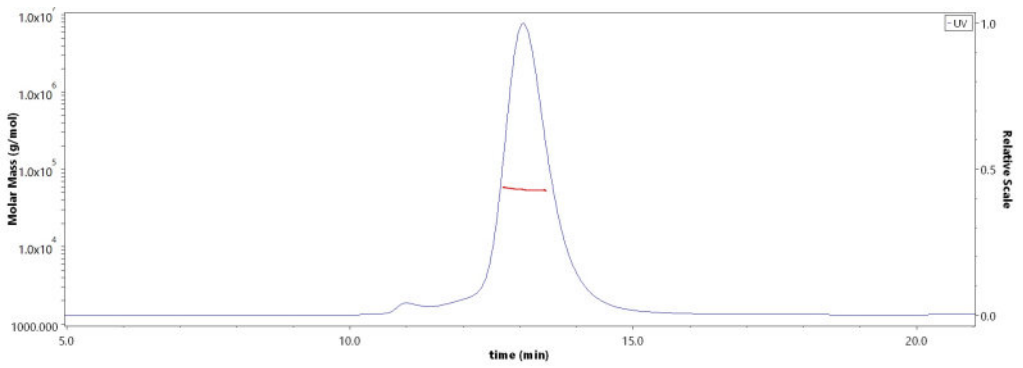
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



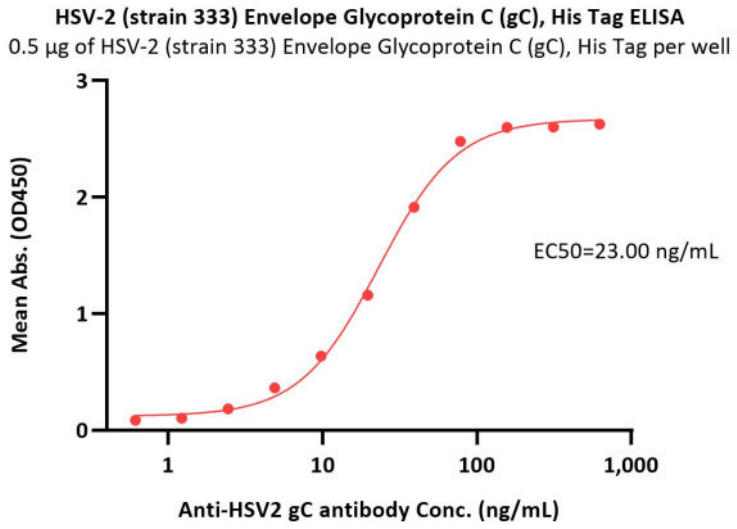
HSV-2 (strain 333) Envelope Glycoprotein C (gC), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

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

Bioactivity-ELISA



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 α-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