

**Synonym**

Epstein-Barr virus (Herpesvirus 4), EBV Glycoprotein gp350, EBV GP350

**Source**

Epstein-Barr virus (Herpesvirus 4) EBV Glycoprotein gp350 Protein, His Tag (GP0-E52H6) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Thr 470 (Accession # [P03200-1](#)).

Predicted N-terminus: Met 1

**Molecular Characterization**

gp350(Met 1 - Thr 470)  
P03200-1 Poly-his

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

The protein has a calculated MW of 52.3 kDa. The protein migrates as 80-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22  $\mu\text{m}$  filtered solution in PBS, pH7.4 . Normally Trehalose is added as protectant before lyophilization.

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.*

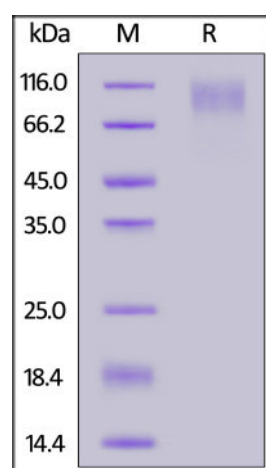
**Storage**

For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

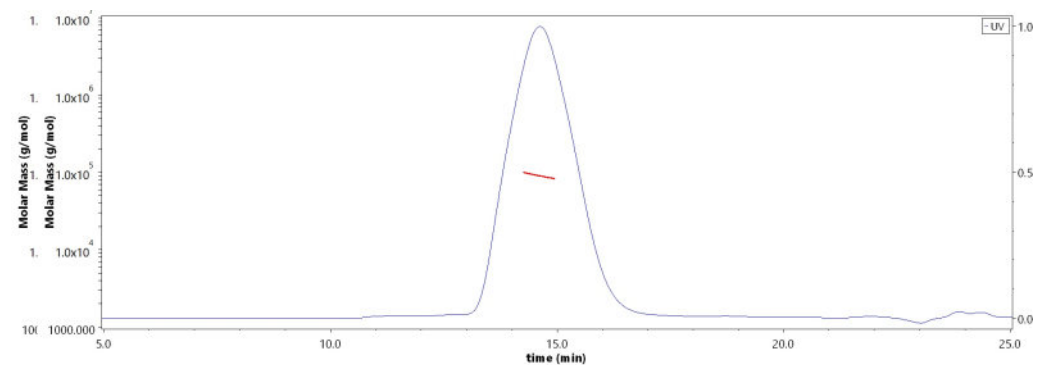
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Epstein-Barr virus (Herpesvirus 4) EBV Glycoprotein gp350 Protein, 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%.

**SEC-MALS**

The purity of Epstein-Barr virus (Herpesvirus 4) EBV Glycoprotein gp350 Protein, His Tag (Cat. No. GP0-E52H6) was more than 90% and the molecular weight of this protein is around 85-95 kDa verified by SEC-MALS.

[Report](#)

**Background**

Epstein-Barr virus (EBV), also designated human herpesvirus 4 (HHV-4), is a member of the herpesvirus family and is one of the most common human viruses. EBV binds to the cell surface receptor 2 (CR2) on human B cells using its major envelope glycoprotein 350 (gp350) and, as such, the EBV gp350 Envelope Protein, also

designated the EBV envelope glycoprotein complex 250/350, is crucial in mediating the initial stages of EBV infection. The EBV gp350 Envelope Protein is expressed on virion envelope as well as EBV producer cells.

### References

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