

Epstein-Barr virus Envelope Glycoprotein B (gB), His Tag (MALS verified)

Catalog # GLB-E52H3



BIOSYSTEMS
Acro

Source

Epstein-Barr virus Envelope Glycoprotein B (gB), His Tag(GLB-E52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 23 - Gly 685 (Accession # [P03188](#) (W112H, Y113R, R428G, R429S, R430G, R431S, R432G, W193R, L194V, I195E, W196A)).

Predicted N-terminus: Gln 23

Molecular Characterization

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

The protein has a calculated MW of 76.0 kDa. The protein migrates as 90-100 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.9 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.1M Arginine, 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

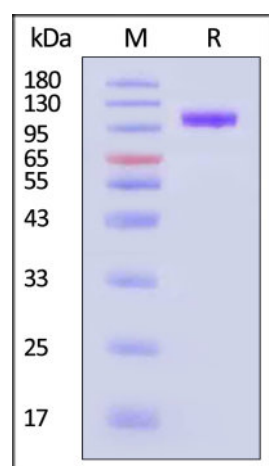
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

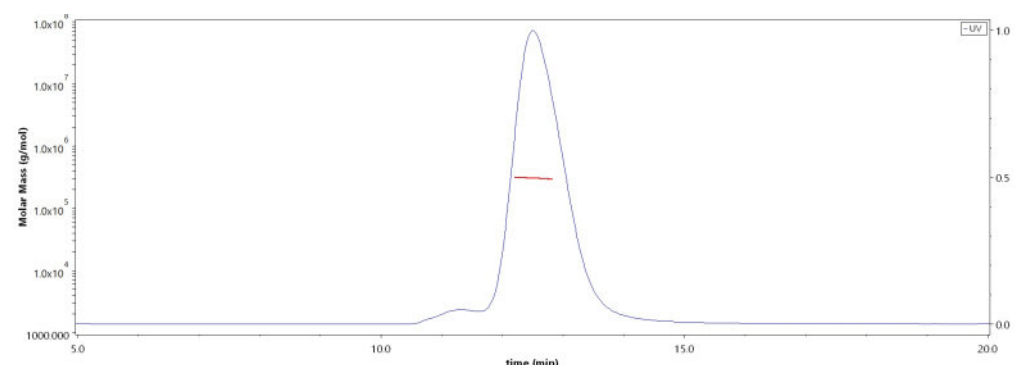
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Epstein-Barr virus Envelope Glycoprotein B (gB), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Epstein-Barr virus Envelope Glycoprotein B (gB), His Tag (Cat. No. GLB-E52H3) is more than 85% and the molecular weight of this protein is around 275-305 kDa verified by SEC-MALS. [Report](#)

Background

Epstein-Bar Virus (EBV), also known as human herpesvirus 4, belongs to gamma herpes virus family and is a very common human virus worldwide. EBV causes infectious mononucleosis (IM) and also associates to some specific types of cancers such as Burkitt's lymphoma (BL) and gastric carcinoma (GC). Glycoprotein B

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(gB) plays an important role in viral entry by binding with $\alpha\beta 6/\alpha\beta 8$ integrins to trigger the membrane fusion and entry process of epithelial cells, which makes it become an great target for EBV research.

Clinical and Translational Updates

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