

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

Catalog # GLB-E52H3



BIOSYSTEMS  
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## Synonym

gB

## 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

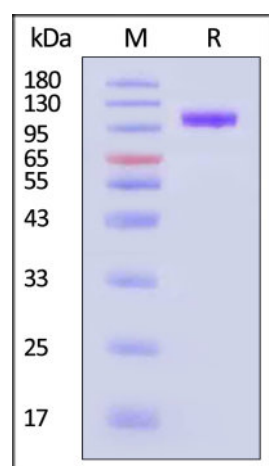
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

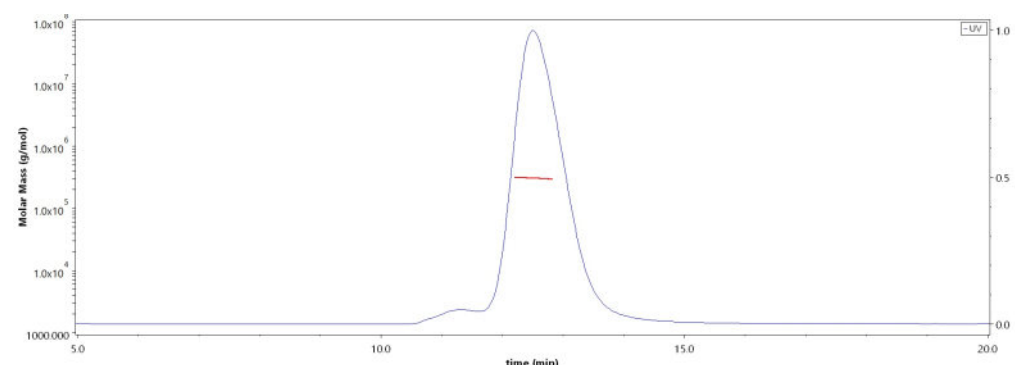
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## 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

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

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