Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV), His Tag&Strep II Tag (MALS verified)

Catalog # GL2-R5583

Source

Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV), His Tag&Strep II Tag(GL2-R5583) is expressed from Baculovirus-Insect cells. It contains AA Gly 301 - Ala 532 & Glu 583 - Ala 1026 (Accession # P08563).
Predicted N-terminus: Gly 301

Molecular Characterization

The protein has a calculated MW of 76.0 kDa. The protein migrates as 80-90 kDa and 93 kDa when calibrated against Star Ribbon Pre-stained Protein Marker 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

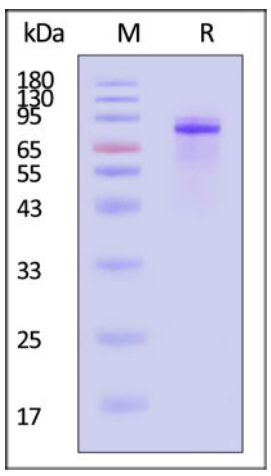
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

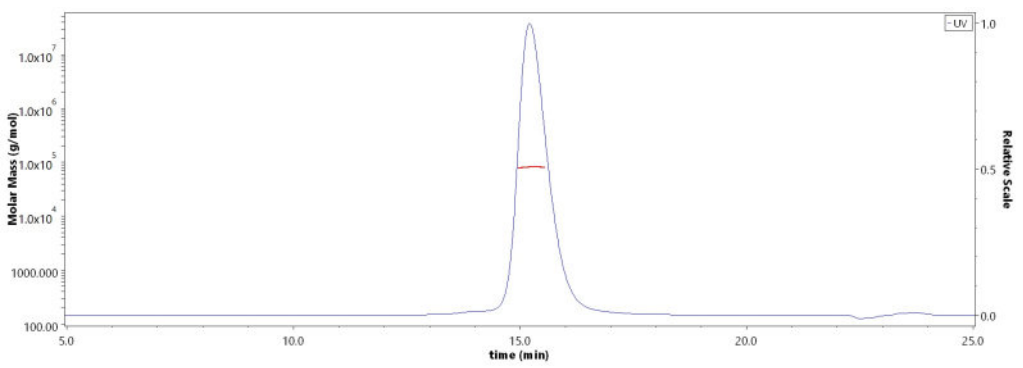
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



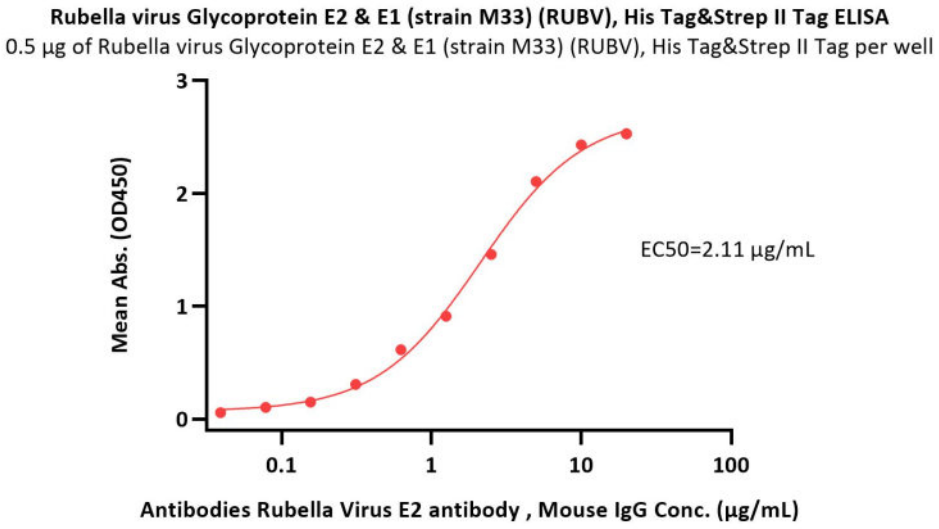
Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV), His Tag&Strep II Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV), His Tag&Strep II Tag (Cat. No. GL2-R5583) is more than 90% and the molecular weight of this protein is around 70-95 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV), His Tag&Strep II Tag (Cat. No. GL2-R5583) at 5 μg/mL (100 μL/well) can bind Antibodies Rubella Virus E2 antibody , Mouse IgG with a linear range of 0.039-5 μg/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. In epithelial cells, the heterodimer gE/gI is required for the cell-to-cell spread of the virus, by sorting nascent virions to cell junctions. Once the virus reaches the cell junctions, virus particles can spread to adjacent cells extremely rapidly through interactions with cellular receptors that accumulate at these junctions. Implicated in basolateral spread in polarized cells. In neuronal cells, gE/gI is essential for the anterograde spread of the infection throughout the host nervous system.

Clinical and Translational Updates