



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

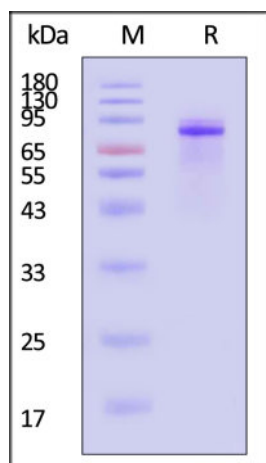
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

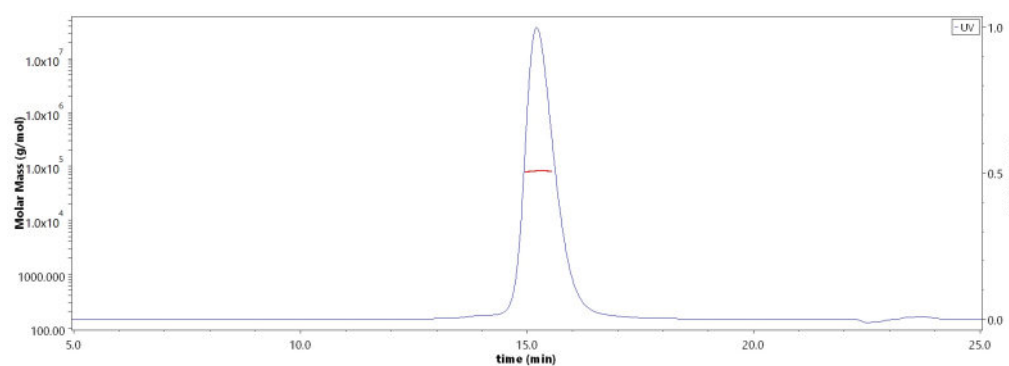
SDS-PAGE



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](#)).

Bioactivity-ELISA

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.

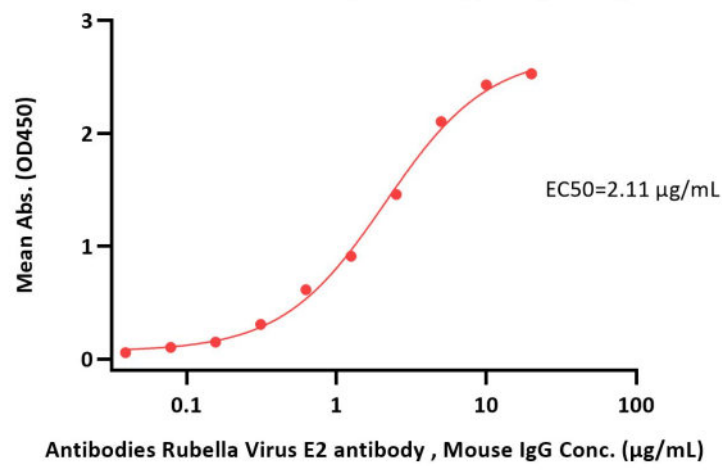
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Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV), His Tag&Strep II Tag ELISA
0.5 µg of Rubella virus Glycoprotein E2 & E1 (strain M33) (RUBV), His Tag&Strep II Tag per well



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

Rubella virus (RV), the etiological agent of German measles, is a small enveloped RNA virus that belongs to the togavirus family. RV virions contain two glycosylated membrane proteins, E1 and E2, that exist as a heterodimer and form the viral spike complexes on the virion surface. Formation of an E1-E2 heterodimer is required for transport of E1 out of the endoplasmic reticulum lumen to the Golgi apparatus and plasma membrane.

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