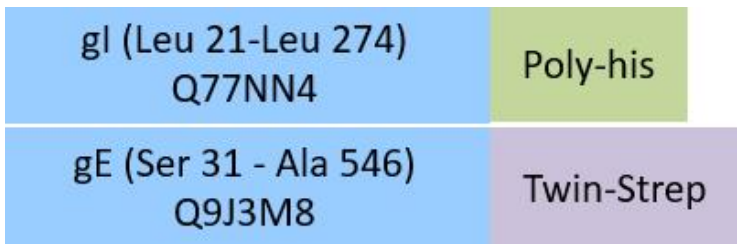
Source

Varicella zoster virus (strain Oka vaccine) gI&gE Protein, His Tag&Twin-Strep Tag(GIE-V5283) is expressed from human 293 cells (HEK293). It contains AA Leu 21-Leu 274 & Ser 31 - Ala 546 (Accession # Q77NN4 & Q9J3M8). Predicted N-terminus: Leu 21 & Ser 31

Molecular Characterization



This protein carries a polyhistidine tag and a twin strep tag at the C-terminus. The protein has a calculated MW of 30.1 kDa & 61.7 kDa. The protein migrates as 35-42 kDa and 60-90 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

>95% as determined by SDS-PAGE.

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

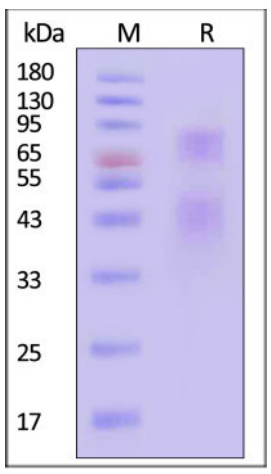
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

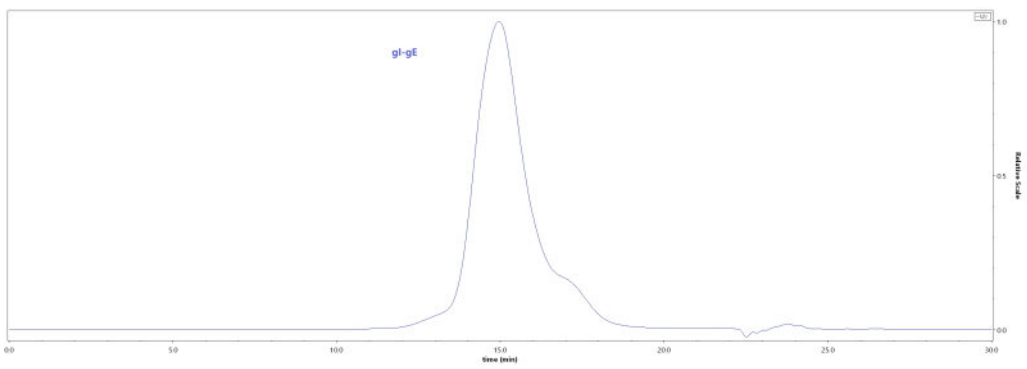
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



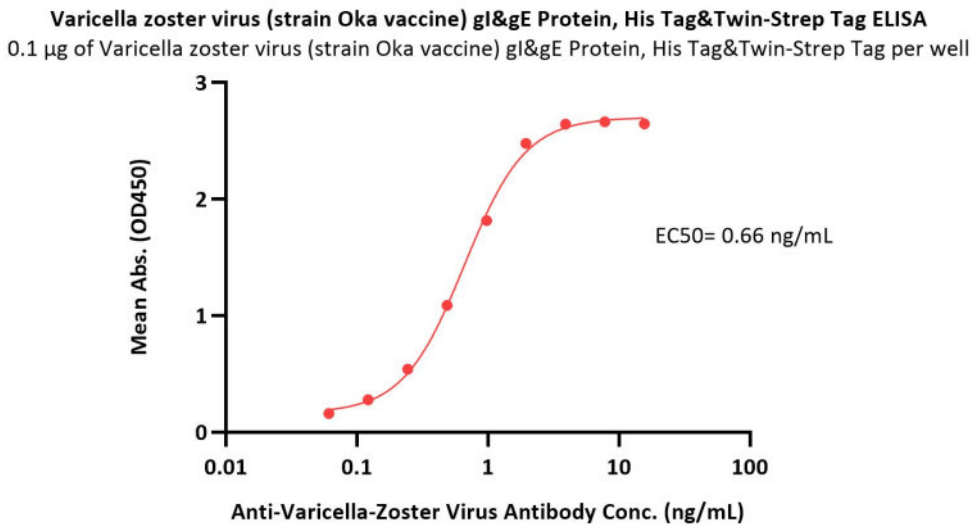
Varicella zoster virus (strain Oka vaccine) gI&gE Protein, His Tag&Twin-Strep Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-HPLC



The purity of Varicella zoster virus (strain Oka vaccine) gI&gE Protein, His Tag&Twin-Strep Tag (Cat. No. GIE-V5283) was greater than 85% as determined by SEC-HPLC.

Bioactivity-ELISA



Immobilized Varicella zoster virus (strain Oka vaccine) gI&gE Protein, His Tag&Twin-Strep Tag (Cat. No. GIE-V5283) at 1 μg/mL (100 μL/well) can bind Anti-Varicella-Zoster Virus Antibody with a linear range of 0.1-1 ng/mL (QC tested).

Background

Varicella-zoster virus (VZV) is the alphaherpesvirus that causes chicken pox (varicella) and shingles (zoster). The two VZV glycoproteins gE and gI form a heterodimer that mediates efficient cell-to-cell spread.

Clinical and Translational Updates