

Human GPA Protein, Ultra Low Endotoxin



Cat. No. GPA-HM201-UL

Description

Source	Recombinant Human GPA Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus. It contains Ser20-Glu91.
Accession	AAA52768.1
Molecular Weight	The protein has a predicted MW of 34.7 kDa. Due to glycosylation, the protein migrates to 45-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

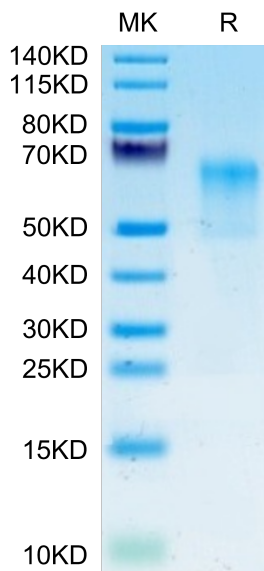
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Granulomatosis with polyangiitis (GPA) presents a wide spectrum of manifestations from the common respiratory symptoms to infrequent neurological and cardiac complications. The challenge in diagnosis and management makes the rapidly progressive disorder one of the most challenging dilemmas in clinical medicine. The ultimate goal is an improved prognosis through outcome measures which assesses the disease control with minimal adverse effects of intensive immunosuppressive regimens, an integral part of the clinical approach to improve the quality of life of GPA patients.

Assay Data

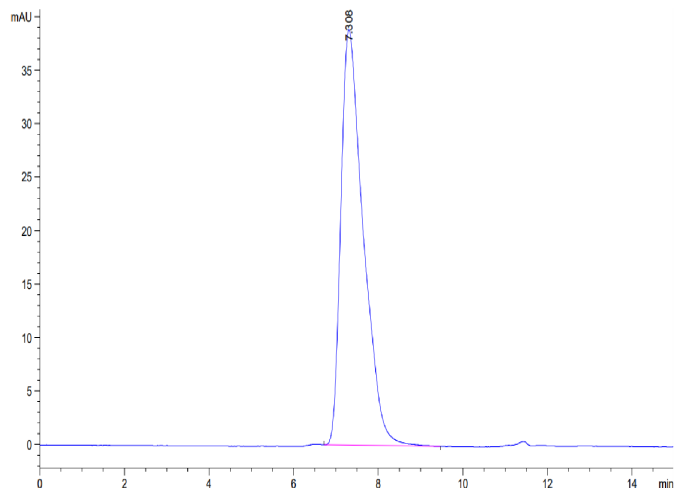
Bis-Tris PAGE



Human GPA on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

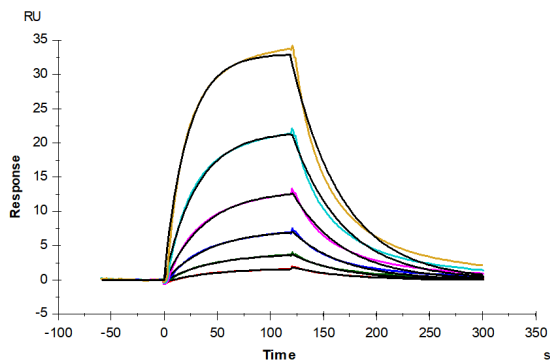
SEC-HPLC

Assay Data



The purity of Human GPA is greater than 95% as determined by SEC-HPLC.

SPR Data



Human GPA, hFc Tag immobilized on CM5 Chip can bind Anti-GPA Antibody, hFc Tag with an affinity constant of 0.17 μ M as determined in SPR assay (Biacore S200).