

# Human IgG4 Fc Protein

Cat. No. IGG-HM004



## Description

<b>Source</b>	Recombinant Human IgG4 Fc Protein is expressed from HEK293 without tag. It contains Glu99-Gly326.
<b>Accession</b>	P01861
<b>Molecular Weight</b>	The protein has a predicted MW of 25.8 kDa. Due to glycosylation, the protein migrates to 30-35 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

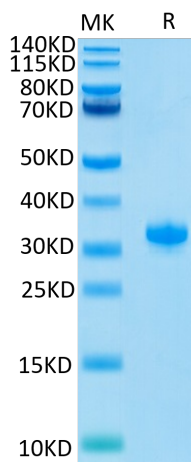
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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

It is known as a IgG4-related disease and its differentiation is based on the analysis of IgG4 levels in the affected tissues. The IgG4-related disease is considered to be a generalized pathological process involving a wide spectrum of various disorders that may affect distant organs.

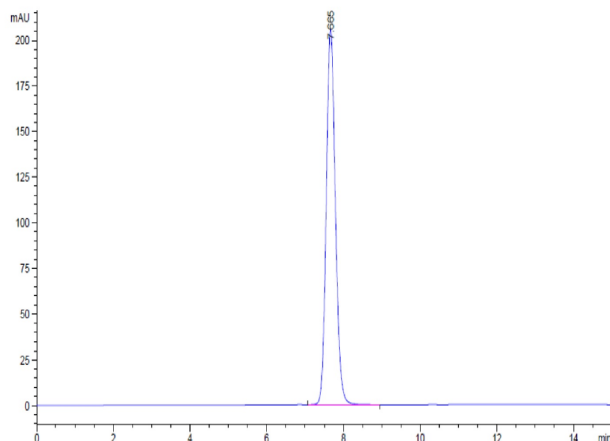
## Assay Data

### Bis-Tris PAGE



Human IgG4 Fc on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

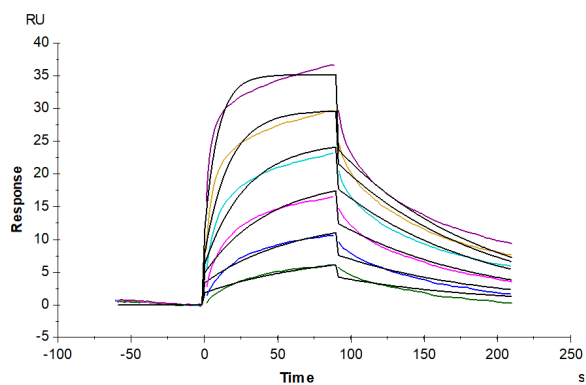
### SEC-HPLC



The purity of Human IgG4 Fc is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Human FcRn, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IgG4 Fc, No Tag with an affinity constant of 1.365  $\mu$ M as determined in SPR assay (Biacore T200).