

# Mouse IgG1 Fc Protein

Cat. No. MFC-MM001



## Description

<b>Source</b>	Recombinant Mouse IgG1 Fc Protein is expressed from HEK293 without tag. It contains Val98-Lys324.
<b>Accession</b>	P01868
<b>Molecular Weight</b>	The protein has a predicted MW of 25.7 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

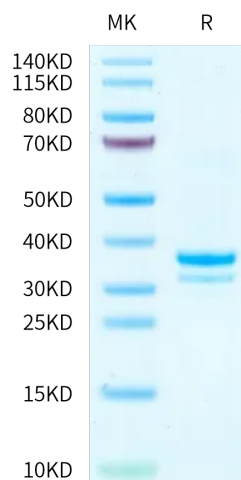
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein 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

Recombinant murine Fc fragment contains the hinge region, CH2, and CH3 region of the mouse IgG1 isotype. IgG1 is most abundant in serum among the four IgG subclasses (IgG1, 2, 3 and 4) and binds to Fc receptors (FcγR) on phagocytic cells with high affinity. Fc fragment is demonstrated to mediate phagocytosis, trigger inflammation, and target Ig to particular tissues.

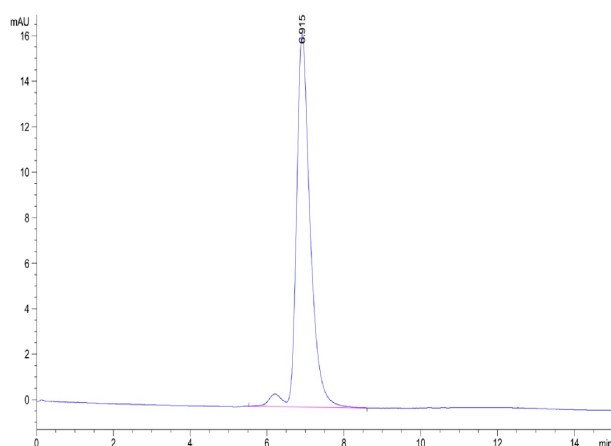
## Assay Data

### Bis-Tris PAGE



Mouse IgG1 Fc on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

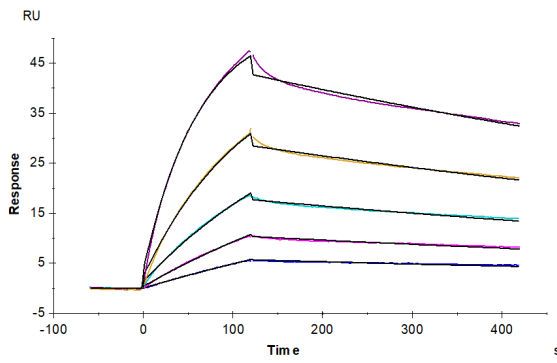
### SEC-HPLC



The purity of Mouse IgG1 Fc is greater than 90% as determined by SEC-HPLC.

Assay Data

SPR Data



Mouse FcRn, His Tag captured on CM5 Chip via anti-his antibody can bind Mouse IgG1 Fc, No Tag with an affinity constant of 15.09 nM as determined in SPR assay (Biacore T200).