

Human IgG1 Fc Protein

Cat. No. IGG-HM001



Description

Source	Recombinant Human IgG1 Fc is expressed from HEK293 without tag.
	It contains Asp104-Lys330.
Accession	P01857-1
Molecular Weight	The protein has a predicted MW of 25.5 kDa. Due to glycosylation, the protein migrates to 31-33 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

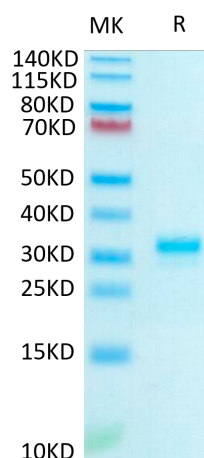
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

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. IgG1 Fc was reported has a novel role as a potential anti-inflammatory drug for treatment of human autoimmune diseases.

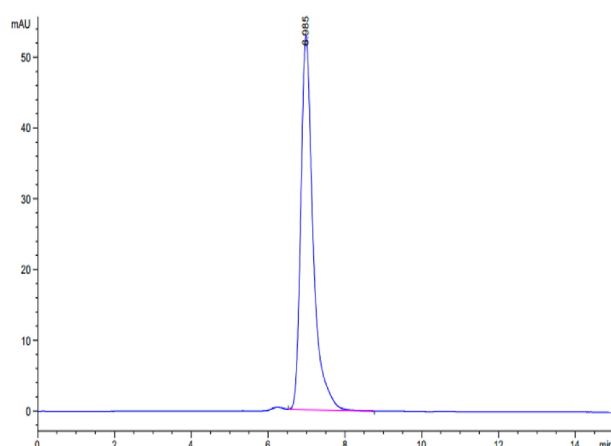
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Human IgG1 Fc is greater than 95% as determined by SEC-HPLC.

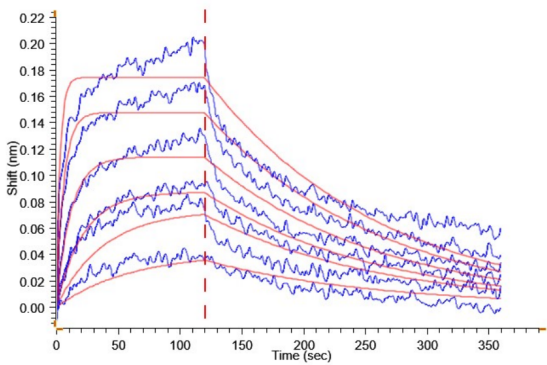
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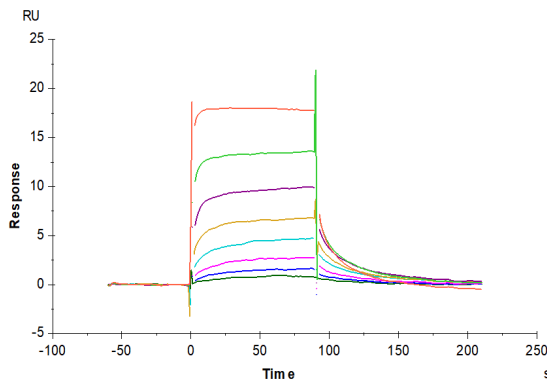
Assay Data

BLI Data



Loaded Biotinylated Human FcRn, His-Avi Tag on Streptavidin-Biosensor can bind Human IgG1 Fc, No Tag with an affinity constant of 22.8 nM as determined in BLI assay (Gator® Prime).

SPR Data



Human FcRn, His Tag captured on CM5 Chip via anti-his antibody can bind Human IgG1 Fc, No Tag with an affinity constant of 0.28 μ M as determined in SPR assay (Biacore T200).