

Mouse IgG2a Fc Protein

Cat. No. IGG-MM02A



Description

Source	Recombinant Mouse IgG2a Fc Protein is expressed from HEK293 without tag. It contains Glu98-Lys330.
Accession	P01863
Molecular Weight	The protein has a predicted MW of 26.38 kDa. Due to glycosylation, the protein migrates to 33-38 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

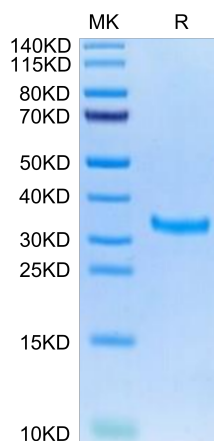
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized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

Mouse IgG2a is one of the subtypes of murine immunoglobulin IgG which mediates immune responses to carbohydrate or polysaccharide antigens. The Fc region of IgG2a can bind to FcRn to prolong its half-life.

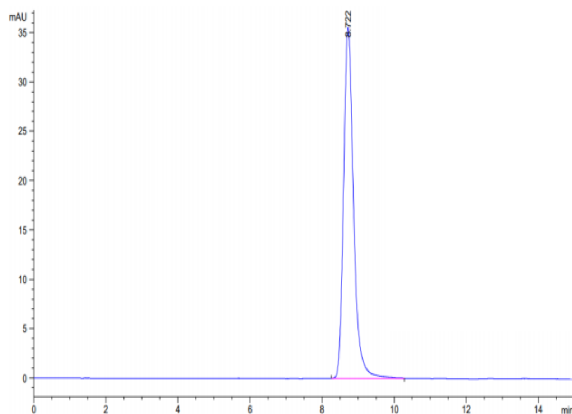
Assay Data

Bis-Tris PAGE



Mouse IgG2a Fc on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



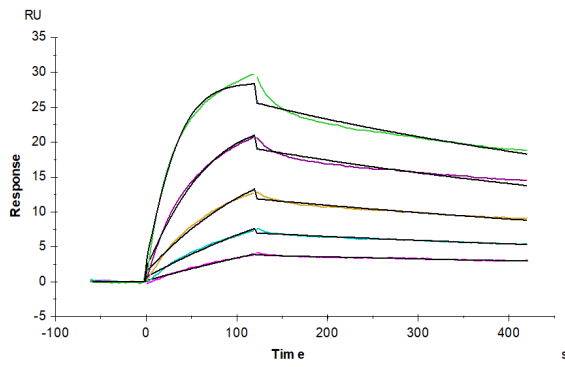
The purity of Mouse IgG2a Fc is greater than 95% as determined by SEC-HPLC.

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Assay Data

SPR Data



Mouse FcRn, His Tag captured on CM5 Chip via Anti-His Antibody can bind Mouse IgG2a Fc, No Tag with an affinity constant of 2.72 nM as determined in SPR assay (Biacore T200).