

## IgG1 Fc recombinant protein

Recombinant Human IgG1 Fc Protein

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| CATALOG #<br><b>AAA173559</b> | HOST<br><b>CHO Cells</b> |
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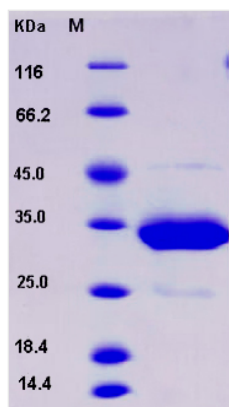
### PRODUCT SYNONYMS

IgG1 Fc; Recombinant Human IgG1 Fc Protein; g gamma-1 chain C region; IGHG1; IgG1 Fc recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | CHO Cells                                                                                                                                                                                                                                                         |
| Purity/Purification     | > 92 % as determined by reducing SDS-PAGE                                                                                                                                                                                                                         |
| Form/Format             | Lyophilized from sterile PBS, pH 7.4, 5% Trehalose, 5% Mannitol, 0.01% Tween-80.                                                                                                                                                                                  |
| Sequence                | Glu99-Lys330                                                                                                                                                                                                                                                      |
| Sequence Length         | 329                                                                                                                                                                                                                                                               |
| Species                 | Human                                                                                                                                                                                                                                                             |
| Endotoxin               | < 1.0 EU per ug of the protein as determined by the LAL method                                                                                                                                                                                                    |
| Reconstitution          | We recommend that the vial be centrifuged to prior to opening to bring contents to the bottom. Do not mix by vortex. It is recommended that the sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis |
| Preparation and Storage | Lyophilized protein should be stored at < -20°C. Reconstituted protein solution can be stored at 4°C to 7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.                                                                   |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Related Product Information for IgG1 Fc recombinant protein | Background: As a monomeric immunoglobulin that is predominately involved in the secondary antibody response and the only isotype that can pass through the human placenta, Immunoglobulin G (IgG) is synthesized and secreted by plasma B cells, and constitutes 75% of serum immunoglobulins in humans. IgG antibodies protect the body against the pathogens by agglutination and immobilization, complement activation, toxin neutralization, as well as the antibody-dependent cell-mediated cytotoxicity (ADCC). IgG tetramer contains two heavy chains (50 kDa) and two light chains (25 kDa) linked by disulfide bonds, that is the two identical halves form the Y-like shape. IgG is digested by pepsin proteolysis into Fab fragment (antigen-binding fragment) and Fc fragment ("crystallizable" fragment). 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. Protein G or Protein A on the surface of certain Staphylococcal and Streptococcal strains specifically binds with the Fc region of IgGs, and has numerous applications in biotechnology as a reagent for affinity purification. Recombinant IgG Fc Region is suggested to represent a potential anti-inflammatory drug for treatment of human autoimmune diseases. |
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NCBI AND UNIPROT INFORMATION

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|-------------------------|-------------------------------------------------------------|
| NCBI GI #               | 184747                                                      |
| Molecular Weight        | Molecular Mass: 26 kDa<br>AP Molecular Mass: 34 kDa         |
| NCBI Official Full Name | immunoglobulin gamma-1 heavy chain constant region, partial |
| UniProt Protein Name    | Ig gamma-1 chain C region                                   |
| UniProt Gene Name       | IGHG1                                                       |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/ighg1-recombinant-protein-cho/173559>