

# Recombinant Human IgG2-Fc Protein

Catalog Number:PKSH033652



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

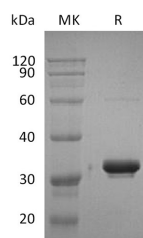
## Description

|                                    |                                   |
|------------------------------------|-----------------------------------|
| <b>Synonyms</b>                    | Ig gamma-2 chain C region;IgG2 Fc |
| <b>Species</b>                     | Human                             |
| <b>Expression Host</b>             | HEK293 Cells                      |
| <b>Sequence</b>                    | Glu99-Lys326(Val161Met,Ser257Ala) |
| <b>Accession</b>                   | P01859                            |
| <b>Calculated Molecular Weight</b> | 25.7 kDa                          |
| <b>Observed molecular weight</b>   | 32 kDa                            |
| <b>Tag</b>                         | None                              |

## Properties

|                       |                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.                                                                                                                                                                                                        |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.             |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                                   |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.                                                                                                                                                                                      |

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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

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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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