

# Active Recombinant Human IGHG1 Protein

**Cat. No.** IGHG1-245H    **Lot. No.** (See product label)

## SPECIFICATION

|                             |                                                                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant human IgG1 Fc region (AAC82527.1) (Glu 99-Lys 330) (one aa mutation, 103 Cys/Ser) was expressed.                                                                                                                             |
| <b>Species</b>              | Human                                                                                                                                                                                                                                    |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                   |
| <b>Protein Length</b>       | 99-330 a.a.                                                                                                                                                                                                                              |
| <b>Predicted N Terminal</b> | Glu 99                                                                                                                                                                                                                                   |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                                                                                                                                      |
| <b>Bio-activity</b>         | 1. Measured by its ability to bind human CD16a-His in a functional ELISA. 2. Measured by its ability to bind human CD16a-AVI-His in a functional ELISA. 3. Measured by its ability to bind human CD16a-His in a functional ELISA.        |
| <b>Molecular Mass</b>       | The recombinant human IgG1 Fc consists of 232 amino acids and has a predicted molecular mass of 26 kDa. As a result of glycosylation, the apparent molecular mass of rhFc is approximately 32 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                          |
| <b>Purity</b>               | >95 % as determined by SDS-PAGE.                                                                                                                                                                                                         |

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|                       |                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                      |
| <b>Storage</b>        | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                      |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | IGHG1 immunoglobulin heavy constant gamma 1 (G1m marker) [ Homo sapiens ]                                                                                                                                           |
| <b>Official Symbol</b>     | IGHG1                                                                                                                                                                                                               |
| <b>Synonyms</b>            | IGHG1                                                                                                                                                                                                               |
| <b>Gene ID</b>             | 3500                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>         |                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>      |                                                                                                                                                                                                                     |
| <b>MIM</b>                 |                                                                                                                                                                                                                     |
| <b>UniProt ID</b>          |                                                                                                                                                                                                                     |
| <b>Chromosome Location</b> | 14q32.33                                                                                                                                                                                                            |
| <b>Pathway</b>             | Classical antibody-mediated complement activation, organism-specific biosystem;<br>Complement cascade, organism-specific biosystem; Fc gamma receptor (FCGR)<br>dependent phagocytosis, organism-specific biosystem |

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