

## Active Recombinant Human IGHG1 protein, His & Avi-tagged, Biotinylated

**Cat. No.** IGHG1-372H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Biotinylated polyhistidine tagged human IgG1 Fc is expressed from human HEK293 cells. It contains AA Pro 100 - Lys 330 (Accession # P01857(C103S)). Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.                                                                                                                                          |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>        | Pro 100 - Lys 330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>          | Crystallizable fragments composed of the carboxy-terminal halves of both IMMUNOGLOBULIN HEAVY CHAINS linked to each other by disulfide bonds. Fc fragments contain the carboxy-terminal parts of the heavy chain constant regions that are responsible for the effector functions of an immunoglobulin (COMPLEMENT fixation, binding to the cell membrane via FC RECEPTORS, and placental transport). IgG1 Fc was reported has a novel role as a potential anti-inflammatory drug for treatment of human autoimmune diseases. |
| <b>Predicted N Terminal</b> | Ala                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Form</b>                 | Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                       |                                                                                                                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Bio-activity</b>   | Immobilized Recombinant Protein A at 2 µg/mL (100 µL/well), can bind Biotinylated Human IgG1 Fc protein with a linear range of 0.8-12.5 ng/mL.                                                                                                                                                   |
| <b>Molecular Mass</b> | This protein carries an Avi tag at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 28.8 kDa. The protein migrates as 36 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation and 60-66 kDa under non-reducing (NR) condition.             |
| <b>Endotoxin</b>      | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                       |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                  |
| <b>Storage</b>        | For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution. |
| <b>Storage buffer</b> | 50 mM Tris, 100 mM Glycine, pH7.5                                                                                                                                                                                                                                                                |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                                    |
| <b>Shipping</b>       | Powder, RT                                                                                                                                                                                                                                                                                       |
| <b>Conjugation</b>    | Biotin                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

**Gene Name** IGHG1 immunoglobulin heavy constant gamma 1 (G1m marker) [ Homo sapiens (human) ]

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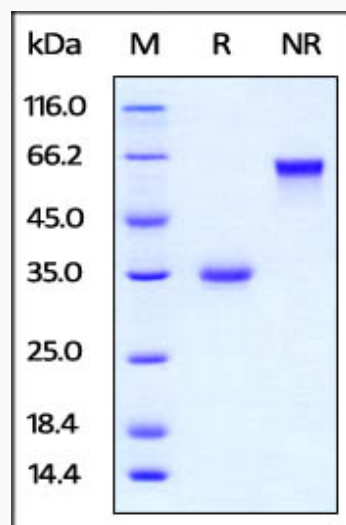
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**Official Symbol** **IGHG1**

**Synonyms** constant region of heavy chain of IgG1; immunoglobulin gamma 1 (Gm marker)

**Gene ID** **3500**

**SDS-PAGE**



Biotinylated polyhistidine tagged human IgG1 Fc protein on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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