

## Recombinant Human IGHG4 Protein (SPR verified)

**Cat. No.** IGHG4-8282H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human IGHG4 Protein (SPR verified) (Glu99-Lys327) was expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                  |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>        | Glu99-Lys327                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>          | Immunoglobulin G4 (IgG4) is a member of many immunoglobulin G developed and secreted by effective B cells. In wake of cutting by pepsin, IgG is divided into two F(ab)s with one antigen binding site and a high conserved Fc segment. The Fc segment bears a highly conserved N-glycosylation site. Ig gamma-4 chain Fc region contains two constant regions of IgG4 H chain (CH2, CH3). |
| <b>Predicted N Terminal</b> | Glu99                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>                 | Tris with Glycine, Arginine and NaCl, pH7.5                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>       | The protein has a calculated MW of 25.8 kDa. As a result of glycosylation, the protein migrates as 30-32 kDa under reducing (R) condition, and 28-30 kDa and 55-60 kDa under non-reducing (NR) condition (SDS-PAGE).                                                                                                                                                                      |
| <b>Endotoxin</b>            | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                                                                                                                |

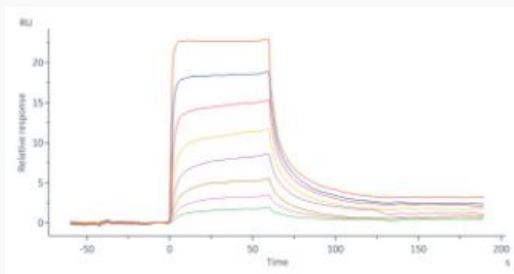
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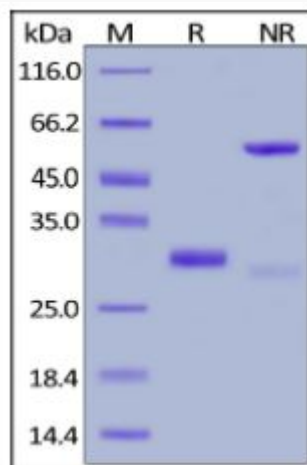
|                         |                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>          | <p>For long term storage, the product should be stored at lyophilized state at -20°C or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20°C to -70°C for 12 months in lyophilized state;</p> <p>-70°C for 3 months under sterile conditions after reconstitution.</p> |
| <b>Reconstitution</b>   | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                                                                          |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>        | IGHG4                                                                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b>  | IGHG4                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>         | IGHG4                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene ID</b>          | 3503                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>              | 147130                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>       | P01861                                                                                                                                                                                                                                                                                                                                 |

### Bioactivity-SPR of IGHG4-8282H



Human FcγRT&B2M Heterodimer Protein, His Tag (SPR & BLI verified) captured on CM5 Chip via anti-His antibody can bind Human IgG4 Fc, Tag Free (SPR verified) with an affinity constant of 0.715  $\mu$ M as determined in SPR assay (Biacore 8K) (QC tested).

### SDS-PAGE of IGHG4- 8282H



Human IgG4 Fc, Tag Free (SPR verified) on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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