

## Recombinant Human IGHG3 protein

**Cat. No.** IGHG3-176H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human IGHG3 (Glu99-Lys377) protein carried no tag and was expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                             |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>        | Glu99-Lys377                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>          | Immunoglobulin G3 (IgG3) 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-3 chain C region (IgG3-Fc/IGHG3) contains two constant regions of IgG3 H chain (CH2, CH3). |
| <b>Predicted N Terminal</b> | Glu99                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>                 | Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>       | Human IgG3-Fc/IGHG3 Region has a calculated MW of 31.2 kDa. The reducing (R) protein migrates as 40-50 kDa in SDS-PAGE due to glycosylation.                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>            | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                                                                                                                               |

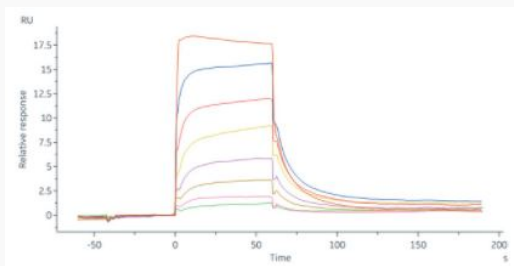
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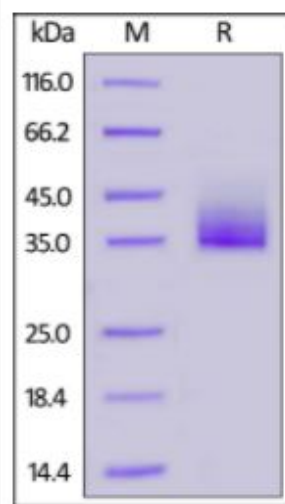
|                         |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade 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 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>        | IGHG3                                                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>  | IGHG3                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>         | IgG3                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene ID</b>          | 3502                                                                                                                                                                                                                                                                                                                                                            |
| <b>MIM</b>              | 147120                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>       | P01860                                                                                                                                                                                                                                                                                                                                                          |

### Bioactivity-SPR of IGHG3-176H



Human FCGRT&B2M Heterodimer Protein, His Tag (SPR & BLI verified) captured on CM5 Chip via anti-His antibody can bind Human IgG3 Fc, Tag Free (SPR verified) with an affinity constant of  $0.683 \mu\text{M}$  as determined in SPR assay (Biacore 8K) (QC tested).

### SDS-PAGE of IGHG3- 176H



Human IgG Fc, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.