

## Recombinant Human IGHG3 Protein (SPR verified)

**Cat. No.** IGHG3-928H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IGHG3 protein (SPR verified)(Glu99-Lys377) 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>	Tris with Glycine, Arginine and NaCl, pH7.5
<b>Molecular Mass</b>	The protein has a calculated MW of 31.2 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

-20°C to -70°C for 12 months in lyophilized state;

-70°C for 3 months under sterile conditions after reconstitution.

**Reconstitution**

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.

**GENE INFORMATION****Gene Name**

IGHG3

**Official Symbol**

IGHG3

**Synonyms**

Ig gamma-3 chain C region,IgG,IgG3

**Gene ID**

3502

**MIM**

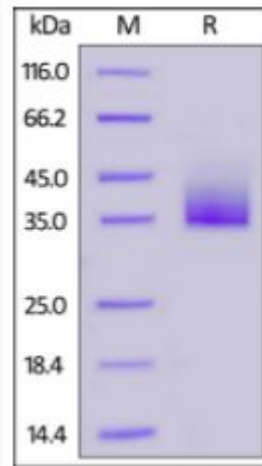
147120

**UniProt ID**

P01860

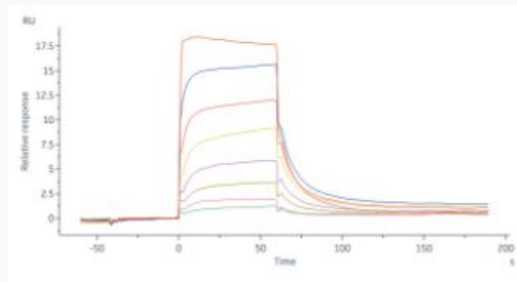
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**SDS-PAGE of IGHG3-928H**



Human IgG3 Fc, Tag Free (SPR verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-SPR of IGHG3-928H**



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).

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