

Recombinant Human IGHG3 protein

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

SPECIFICATION

Product Overview	Recombinant Human IGHG3 (Glu99-Lys377) protein carried no tag and was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Glu99-Lys377
Description	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).
Predicted N Terminal	Glu99
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	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.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity >95% as determined by SDS-PAGE.

Storage For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:
-20 to -70 centigrade for 12 months in lyophilized state;
-70 centigrade 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 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name IGHG3

Official Symbol IGHG3

Synonyms IgG3

Gene ID 3502

MIM 147120

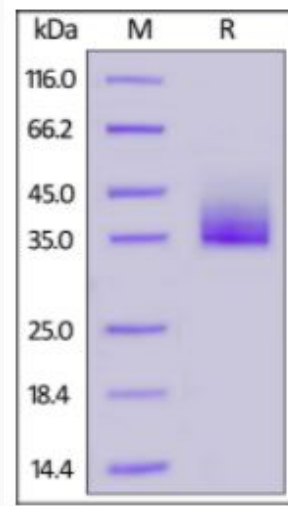
UniProt ID P01860

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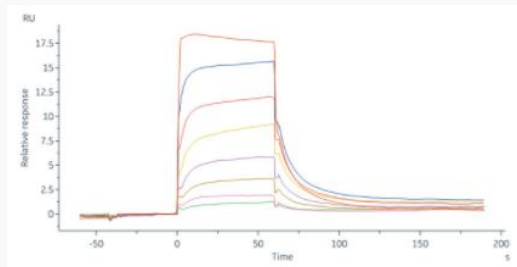
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SDS-PAGE of IGHG3-176H



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%.

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 μ M as determined in SPR assay (Biacore 8K) (QC tested).

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