

Recombinant Human IGFBP4 protein

Cat. No. IGFBP4-755H Lot. No. (See product label)

SPECIFICATION

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|-----------------------------|---|
| Product Overview | Recombinant Human IGFBP4 (Glu99-Lys327) protein carried no tag and was expressed in human 293 cells (HEK293). |
| Species | Human |
| Source | HEK293 |
| ProteinLength | Glu99-Lys327 |
| Description | 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). |
| 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 | 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). |
| Endotoxin | Less than 1.0 EU per µg by the LAL method. |

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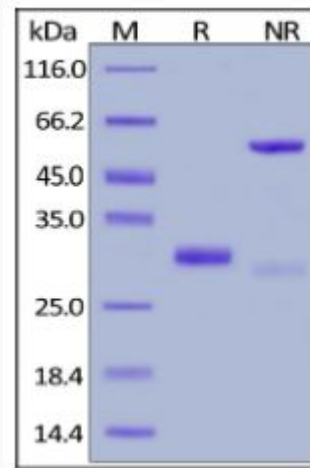
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|---|
| Purity | >95% as determined by SDS-PAGE. |
| Storage | <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> |
| 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 | IGFBP4 |
| Official Symbol | IGFBP4 |
| Synonyms | IGFBP4; insulin-like growth factor binding protein 4; insulin like growth factor binding protein 4; insulin-like growth factor-binding protein 4; BP 4; HT29 IGFBP; IBP4; IGF binding protein 4; IGFBP 4; IBP-4; IGF-binding protein 4; BP-4; IGFBP-4; HT29-IGFBP |
| Gene ID | 3487 |
| mRNA Refseq | NM_001552 |
| Protein Refseq | NP_001543 |
| MIM | 146733 |

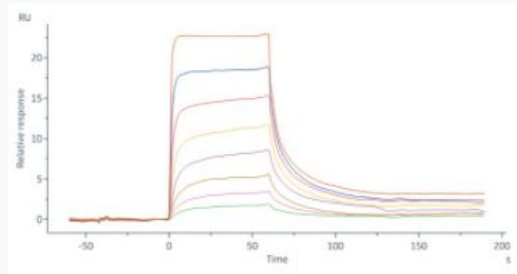
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UniProt ID
P22692
**SDS-PAGE of
IGFBP4-755H**


Human IgG4 Fc, Tag Free 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%.

**Bioactivity-SPR of
IGFBP4-755H**


Human FCGRT&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 $0.715 \mu\text{M}$ as determined in SPR assay (Biacore 8K) (QC tested).

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