

# Recombinant Rhesus macaque IGFBP1 protein, His-tagged

**Cat. No.** IGFBP1-822R    **Lot. No.** (See product label)

## SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Rhesus macaque IGFBP1 (Ala48-Asn281) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>              | Rhesus macaque                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>        | Ala48-Asn281                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>          | Insulin-like growth factor-binding protein 1 (IGFBP1) is also known as placental protein 12 (PP12), which contains one IGFBP N-terminal domain and one thyroglobulin type-1 domain. IGFBP1 can bind both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of IGFBP1 can prolong the half-life of the IGFs and alter their interaction with cell surface receptors. Furthermore, IGFBP1 can promote cell migration. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. |
| <b>Predicted N Terminal</b> | Ala48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Form</b>                 | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>       | The protein has a calculated MW of 27.2 kDa. The protein migrates as 35 kDa under reducing (R) condition (SDS-PAGE).                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Endotoxin</b>            | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

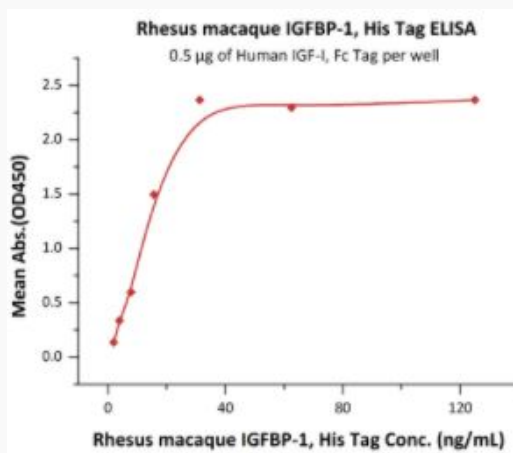
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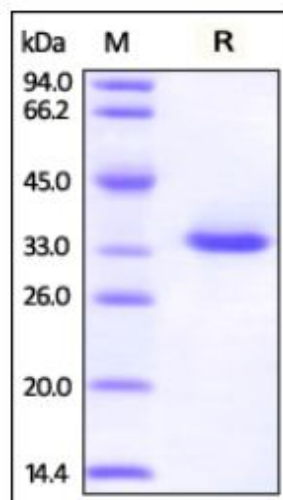
|                         |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | >98% 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>        | IGFBP1                                                                                                                                                                                                                                                                                                                                                          |
| <b>Official Symbol</b>  | IGFBP1                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | AFBP; IBP1; PP12; IGF-BP25; hIGFBP-1                                                                                                                                                                                                                                                                                                                            |
| <b>Gene ID</b>          | 696994                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>      | XM_001085935.4                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | XP_001085935.2                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>       | A0A1D5QTL3                                                                                                                                                                                                                                                                                                                                                      |

### Bioactivity-ELISA of IGFBP1-822R



Immobilized Human IGF-I, Fc Tag at 5 µg/mL (100 µL/well) can bind Rhesus macaque IGFBP-1, His Tag with a linear range of 2-31 ng/mL (QC tested).

### SDS-PAGE of IGFBP1-822R



Rhesus macaque IGFBP-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.