# Mouse IGFBP-3R Protein

**Cat. No.** IGF-MM23R

## Description

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|---|---|
| **Source** | Recombinant Mouse IGFBP-3R Protein is expressed from HEK293 with hFc tag at the C-Terminus. |
| | It contains Gly39-Arg204. |
| **Accession** | Q9D123-1 |
| **Molecular Weight** | The protein has a predicted MW of 44.4 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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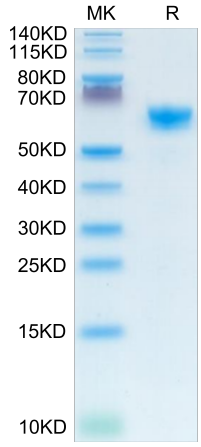
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Insulin-like growth factor-binding protein-3 (IGFBP-3) is a multifunctional protein known for modulating mitogenic and metabolic actions of IGFs as well as exerting a variety of biological actions not involving IGF. IGFBP-3 inhibits airway inflammation and hyper-responsiveness via an IGF-independent mechanism that involves activation of IGFBP-3R signaling and cross-talk with NF-κB signaling. The IGFBP-3/IGFBP-3R system therefore plays a pivotal role in the pathogenesis of asthma and can serve as a newly identified potential therapeutic target for this debilitating disease.

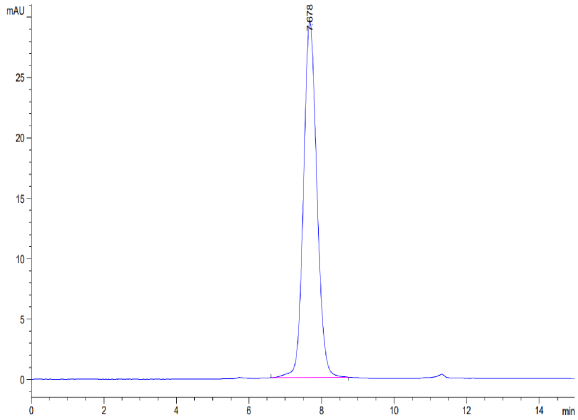
## Assay Data

### Bis-Tris PAGE




Mouse IGFBP-3R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC




The purity of Mouse IGFBP-3R is greater than 95% as determined by SEC-HPLC.

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