

# Insulin-Like Growth Factor-Binding Protein 5/IGFBP5 Recombinant Protein | IGFBP5 recombinant protein

Recombinant Mouse IGFBP-5/IGFBP5 Protein (His Tag)

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| CATALOG #<br><b>AAA174038</b> | HOST<br><b>Human Cells</b> |
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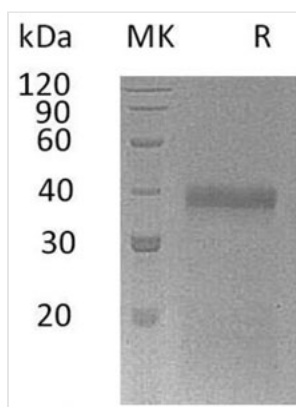
## PRODUCT SYNONYMS

Insulin-Like Growth Factor-Binding Protein 5/IGFBP5; Recombinant Mouse IGFBP-5/IGFBP5 Protein (His Tag); BP-5; IGFBP-5; IGF-binding protein 5; Insulin-like growth factor-binding protein 5; IGFBP5 recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                             |
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| Host                    | Human Cells                                                                                                                                                                                                                                                                 |
| Purity/Purification     | > 90 % as determined by SDS-PAGE                                                                                                                                                                                                                                            |
| Form/Format             | Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH7.4.                                                                                                                                                                                                  |
| Sequence Positions      | Leu20-Glu271                                                                                                                                                                                                                                                                |
| Sequence Length         | 271                                                                                                                                                                                                                                                                         |
| Species                 | Mouse                                                                                                                                                                                                                                                                       |
| Endotoxin               | <1.0 EU per ug as determined by LAL test.                                                                                                                                                                                                                                   |
| Tag                     | C-6His                                                                                                                                                                                                                                                                      |
| Reconstitution          | We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water(250ul) be added to the vial to prepare a stock solution of 0.2mg/mL. Concentration is measured by UV-Vis.              |
| Preparation and Storage | Ships on blue ice. Lyophilized proteins are stable for up to 12 months when stored at -20 degree C to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. |

## IMAGES



SDS-PAGE  
SDS-PAGE

ADDITIONAL INFORMATION

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| Related Product Information for IGFBP5 recombinant protein | Mouse Insulin-like growth factor-binding protein 5(IGFBP-5) belongs to the superfamily of insulin-like growth factor (IGF) binding proteins. It contains 1 IGFBP N-terminal domain and 1 thyroglobulin type-1 domain. Mouse IGFBP-5 shows 97% aa sequence identity with those of human and rat IGFBP-5. It is expressed mostly in kidney, uterus and gastrocnemius muscle. It also expressed by fibroblasts, myoblasts and osteoblasts, making it the predominant IGFBP found in bone extracts. IGFBP-5 has a strong affinity for hydroxyapatite, allowing it to bind to bone cells. When bound to extracellular matrix, IGFBP-5 is protected from proteolysis and potentiates IGF activity, but when it is soluble, IGFBP-5 is cleaved to a biologically inactive 21 kDa fragment. IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                  |
|----------------------------------|------------------------------------------------------------------|
| NCBI GI #                        | 70909322                                                         |
| NCBI GeneID                      | 16011                                                            |
| NCBI Accession #                 | NP_034648.2                                                      |
| NCBI GenBank Nucleotide #        | NM_010518.2                                                      |
| UniProt Accession #              | Q07079                                                           |
| Molecular Weight                 | Molecular Mass: 29.3 kDa<br>Actual Protein Molecular Mass: 38kDa |
| NCBI Official Full Name          | insulin-like growth factor-binding protein 5                     |
| NCBI Official Synonym Full Names | insulin-like growth factor binding protein 5                     |
| NCBI Official Symbol             | Igfbp5                                                           |
| NCBI Official Synonym Symbols    | IGFBP-5; AI256729; AW208790; IGFBP-5P                            |
| NCBI Protein Information         | insulin-like growth factor-binding protein 5                     |
| UniProt Protein Name             | Insulin-like growth factor-binding protein 5                     |
| UniProt Gene Name                | Igfbp5                                                           |
| UniProt Synonym Gene Names       | Igfbp-5; IBP-5; IGF-binding protein 5; IGFBP-5                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.