

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

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

CATALOG # AAA174038	HOST Human Cells
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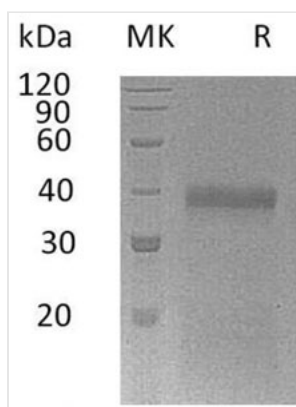
PRODUCT SYNONYMS

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

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

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 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.