

Active Recombinant Mouse Insulin-Like Growth Factor Binding Protein 7, His-tagged

Cat. No. Igfbp7-5645M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Igfbp7 protein was expressed in Spodoptera frugiperda. Ser28-Leu281, with an N-terminal 10-His tag.
Species	Mouse
Source	S. frugiperda
Protein Length	28-281 a.a.
Description	Igfbp7 is a 31-37 kDa secreted glycoprotein that belongs to the IGFBP superfamily of molecules. Members of this superfamily are characterized by the presence of 10-12 conserved cysteines in the first third of the molecule, and the partial conservation of an xCGCCxxC octapeptide motif that exists in an N-terminal IGFBP domain. Mouse Igfbp7 cDNA encodes a 281 amino acid (aa) precursor protein that contains a putative 25 aa signal peptide and a 256 aa mature region.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	His
Molecular Weight	27.5 kDa
Activity	Measured by its ability to bind 6CKine/CCL21 in a functional ELISA. When rmIGFBP-rp1/Igfbp7 is immobilized at 500 ng/mL (10 µL/well), the concentration of

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rhCCL21/6Ckinethat produces 50% optimal binding response is found to be approximately 4-20ng/mL.

Endotoxin Level <1.0EU per 1µg of the protein by the LAL method.

SDS-PAGE 35 kDa,reducing conditions.

Purity >97%,by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution 100 µg/mL in sterile PBS

Storage Use a manual defrost freezer and avoid repeated freeze-thawcycles. 12 months from date of receipt, -20 to -70°C as supplied.1 month, 2 to 8°C under sterile conditions after reconstitution. 3months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name [lgfbp7 insulin-like growth factorbinding protein 7 \[Mus musculus \]](#)

Official Symbol [lgfbp7](#)

Synonyms lgfbp7; insulin-likegrowth factor binding protein 7; AGM;Fstl2; Mac25; insulin-like growth factor-binding protein 7; IBP-7; IGFBP-7;angiomodulin; IGF-binding protein 7

Gene ID [29817](#)

mRNA Refseq [NM_001159518](#)

Protein Refseq [NP_001152990](#)

UniProt ID [Q61581](#)

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Chromosome Location	5
Pathway	Senescence andAutophagy
Function	growth factorbinding; insulin-like growth factor binding

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