

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Igfbp7 protein was expressed in <i>Spodoptera frugiperda</i> . Ser28-Leu281, with an N-terminal 10-His tag.
<b>Species</b>	Mouse
<b>Source</b>	<i>S. frugiperda</i>
<b>Protein Length</b>	28-281 a.a.
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>N-terminal Sequence</b>	His
<b>Molecular Weight</b>	27.5 kDa
<b>Activity</b>	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/mLin 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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<b>Chromosome Location</b>	5
<b>Pathway</b>	Senescence andAutophagy
<b>Function</b>	growth factorbinding; insulin-like growth factor binding

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