

Active Recombinant Mouse Insulin-Like Growth Factor Binding Protein 5

Cat. No. Igfbp5-5644M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Igfbp5 protein was expressed in Murine myeloma cellline. Val15-Glu271.
Species	Mouse
Source	Mammalian Cells
Protein Length	15-271 a.a.
Description	The superfamily of insulin-like growth factor (IGF) binding proteins include the six high-affinity IGF binding proteins (IGFBP) and at least four additional low-affinity binding proteins referred to as IGFBP related proteins (IGFBP-rP). All IGFBP superfamily members are cysteine-rich proteins with conserved cysteine residues, which are clustered in the amino- and carboxy-terminal thirds of the molecule. IGFBPs modulate the biological activities of IGF proteins. Some IGFBPs may also have intrinsic bioactivity that is independent of their ability to bind IGF proteins. Post-translational modifications of IGFBPs, including glycosylation, phosphorylation and proteolysis, have been shown to modify the affinities of the binding proteins to IGF.
Form	Supplied as a 0.2 µm filtered solution in Acetonitrile and TFA.
N-terminal Sequence	Val15
Molecular Weight	28.9 kDa

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Activity	Measured by its ability to inhibit the biological activity of IGF-I or IGF-II on MCF-7 human breast adenocarcinoma cells. The ED50 for this effect is typically 0.5-2.5 µg/mL in the presence of 30 ng/mL of rIGF-II.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	28-38 kDa triplet, reducing conditions.
Purity	>90%, 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-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Igfbp5 insulin-like growth factor binding protein 5 [Mus musculus]
Official Symbol	Igfbp5
Synonyms	Igfbp5; insulin-like growth factor binding protein 5; IGFBP-5; AI256729; AW208790; IGFBP-5P; insulin-like growth factor-binding protein 5; IBP-5; IGF-binding protein 5; Insulin-like growth factor binding protein 5, isoform CRA_a
Gene ID	16011
mRNA Refseq	NM_010518
Protein Refseq	NP_034648

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UniProt ID	Q3UQV0
Chromosome Location	1
Pathway	Diabetes pathways;Disease; Myometrial Relaxation and Contraction Pathways; Regulation ofInsulin-like Growth Factor (IGF) Activity by Insulin-like Growth FactorBinding Proteins (IGFBPs)
Function	fibronectin binding;growth factor binding; insulin-like growth factor I binding; insulin-likegrowth factor binding
PDBrendering based on 1boe.	