Active Recombinant Mouse Insulin-Like Growth Factor Binding Protein 5

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

SPECIFICATION

Product Overview	RecombinantMouse Igfbp5 protein was expressed in Murine myeloma cellline. Val15-Glu271.
Species	Mouse
Source	Mammalian Cells
ProteinLength	15-271 a.a.
Description	Thesuperfamily of insulin-like growth factor (IGF) binding proteins include thesix high-affinity IGF binding proteins (IGFBP) and at least four additional low-affinitybinding proteins referred to as IGFBP related proteins (IGFBP-rP). All IGFBPsuperfamily members are cysteine-rich proteins with conserved cysteineresidues, which are clustered in the amino-and carboxy-terminal thirds of themolecule. IGFBPs modulate the biological activities of IGF proteins. SomeIGFBPs may also have intrinsic bioactivity that is independent of their abilityto bind IGF proteins. Post-translational modifications of IGFBPs, includingglycosylation, phosphorylation and proteolysis, have been shown to modify theaffinities of the binding proteins to IGF.
Form	Suppliedas a 0.2 um filtered solution in Acetonitrile and TFA.
N-terminalSequence	Val15
MolecularWeight	28.9 kDa

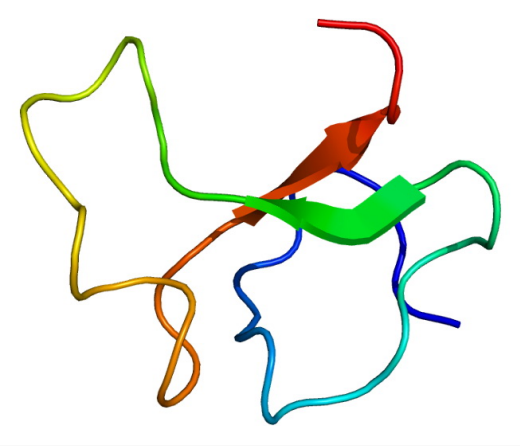
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Activity	Measuredby its ability to inhibit the biological activity of IGF-I or IGF-II on MCF-7human breast adenocarcinoma cells. The ED50 for this effect is typically 0.5-2.5μg/mL in the presence of 30 ng/mL of rmIGF-II.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
SDS-PAGE	28-38kDa triplet, reducing conditions.
Purity	>90%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 μg/mLin sterile PBS
Storage	Use amanual 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. 3months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Igfbp5 insulin-like growthfactor binding protein 5 [Mus musculus]
Official Symbol	Igfbp5
Synonyms	Igfbp5; insulin-likegrowth 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.	

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