Active Recombinant Mouse IGFBP3, carrier free

Cat. No. Igfbp3-7M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IGFBP3, expressed in Murine myeloma cell line.
Species	Mouse
Source	Mammalian Cells
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.
Predicted N Terminal	N-Terminal= Pro22
Form	Lyophilized from a 0.2 μm filtered solution in Acetonitrile and TFA.
Bio-activity	Measured by its ability to inhibit the biological activity of IGFI or IGFII on MCF7 human breast aden centigradearcinoma cells. Karey, K.P. et al. (1988) Cancer Research 48:4083.
Molecular Mass	40-50 kDa, reducing conditions

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Endotoxin	<1.0 eu per 1 μg of the protein by the lal</1.0
Purity	>95%, by SDSPAGE under reducing conditions and visualized by silver stain.
Usage	FOR RESEARCH USE ONLY
Quality Control Test	12 months from date of receipt, 20 to 70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, 20 to 70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS.
Warning	Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Igfbp3 insulin-like growth factor binding protein 3 [Mus musculus]
Official Symbol	Igfbp3
Synonyms	IGFBP3; insulin-like growth factor binding protein 3; insulin-like growth factor-binding protein 3; IBP-3; IGF-binding protein 3; IGFBP-3; IGgfbp3; AI649005;
Gene ID	16009
mRNA Refseq	NM_008343
Protein Refseq	NP_032369
UniProt ID	P47878

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Chromosome Location	11 A1; 11 4.75 cM
Pathway	Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; PluriNetWork, organism-specific biosystem; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs), organism-specific biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	fibronectin binding; insulin-like growth factor I binding; insulin-like growth factor II binding; insulin-like growth factor binding; protein tyrosine phosphatase activator activity;

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