

Active Recombinant Mouse Insulin-Like Growth Factor Binding Protein 1

Cat. No. Igfbp1-5643M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Igfbp1 protein was expressed in Murine myeloma cellline. Ala26-Asn272.
Species	Mouse
Source	Mammalian Cells
Protein Length	26-272 a.a.
Description	The insulin-like growth factor binding protein (IGFBP) family consists of six structurally related proteins that bind IGF with high affinity. These proteins share conserved cysteine-rich N- and C-terminal regions that participate in IGF binding. IGFBPs regulate the bioavailability of IGFs and modulate their biological activities, both positively and negatively. Some IGFBPs also have intrinsic bioactivity that is IGF-independent. Post-translational modifications of the IGFBPs, including glycosylation, phosphorylation and proteolysis, influence IGF binding affinities and tissue localization, affecting both the IGF-dependent and independent functions.
Form	Supplied as a 0.2 µm filtered solution in Acetonitrile and TFA.
N-terminal Sequence	Ala26
Molecular Weight	27 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 3-15 µg/mL in the presence of 5 ng/mL rIGF-I.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	34 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name	Igfbp1 insulin-like growth factor binding protein 1 [Mus musculus]
Official Symbol	Igfbp1
Synonyms	Igfbp1; insulin-like growth factor binding protein 1; insulin-like growth factor-binding protein 1; IBP-1; IGF-binding protein 1; INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN 1 PRECURSOR (IGFBP-1) (IBP-1) (IGF-BINDING PROTEIN 1); IGFBP-1; Igfbp-1
Gene ID	16006
mRNA Refseq	NM_008341
Protein Refseq	NP_032367

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UniProt ID	P47876
Chromosome Location	11
Pathway	Diabetes pathways;Disease; Myometrial Relaxation and Contraction Pathways; Regulation ofInsulin-like Growth Factor (IGF) Activity by Insulin-like Growth FactorBinding Proteins (IGFBPs)
Function	growth factorbinding; insulin-like growth factor binding
PDBrendering based on 1zt3.	