

Active Recombinant Human IGFBP1 Protein

Cat. No. IGFBP1-79H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human IGFBP1 protein (Ala26-Asn259) without tag was expressed in mouse myeloma cell line.
Species	Human
Source	Mammalian Cells
ProteinLength	26-259 a.a.
Description	This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP N-terminal domain and a thyroglobulin type-I domain. The encoded protein, mainly expressed in the liver, circulates in the plasma and binds both insulin-like growth factors (IGFs) I and II, prolonging their half-lives and altering their interaction with cell surface receptors. This protein is important in cell migration and metabolism. Low levels of this protein may be associated with impaired glucose tolerance, vascular disease and hypertension in human patients.
Bio-activity	Measured by its ability to inhibit the biological activity of IGF-I or IGF-II on MCF-7 human breast cancer cells. The ED50 for this effect is typically 0.1-0.6 µg/mL in the presence of 6 ng/mL recombinant human IGF-I.
Molecular Mass	25 kDa
N-terminal Sequence Analysis	Ala26

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Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 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.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.

GENE INFORMATION

Gene Name	IGFBP1 insulin like growth factor binding protein 1 [Homo sapiens (human)]
Official Symbol	IGFBP1
Synonyms	alpha-pregnancy-associated endometrial globulin; amniotic fluid binding protein; binding protein-25; binding protein-26; binding protein-28; growth hormone independent-binding protein; hIGFBP-1; IBP1; IBP-1; IGF-binding protein 1; IGFBP1; IGFBP-1; IGF-BP25; insulin-like growth factor binding protein 1; insulin-like growth factor-binding protein 1; Placental protein 12; PP12AFBP
Gene ID	3484
mRNA Refseq	NM_000596
Protein Refseq	NP_000587

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