

Recombinant Human Insulin-Like Growth Factor Binding Protein 5

Cat. No. IGFBP5-1629H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGFBP-5 (Leu 21 - Glu 272) encoding the mature human IGFBP-5 protein sequence was fused to the signal peptide of CD33 and was inserted into a suitable expression vector. The chimeric protein was expressed in a mouse myeloma cell line, NSO.
Species	Human
Source	Mammalian Cells
Protein Length	21-272 a.a.
Description	Insulin-like growth factor binding protein 5, also known as IGFBP5 is a member of the insulin-like growth factor binding protein (IGFBP) family that are cysteine-rich proteins that act as a carrier protein. It is expressed highly in the kidney. IGFBP-5 has an autonomous role in the regulation of cell fate in development and in tumourigenesis.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Molecular Weight	The predicted molecular weight of Recombinant Human IGFBP-5 is Mr 28 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr

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	34 kDa.
Formulation	This recombinant protein was lyophilized from a 0.2 µm filtered solution in 35% acetonitrile (CH ₃ CN) and 0.1% trifluoroacetic acid (TFA).
Biological Activity	The biological activity of Human IGFBP-5 was determined by its ability to inhibit the biological activity of rhIGF-I or rhIGF-II on MCF-7 cells. The expected ED50 for this effect is typically 0.5 - 1.5 µg/mL in the presence of 14 ng/mL rhIGF-II.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	IGFBP5 insulin-like growth factor binding protein 5 [Homo sapiens]
Synonyms	IBP-5; IBP5; IGFBP-5; IGFBP5; IGF-binding protein 5; insulin-like growth factor binding protein 5
Gene ID	3488
mRNA Refseq	NM_000599
Protein Refseq	NP_000590
MIM	146734
UniProt ID	P24593

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Chromosome Location	2q33-q36
Pathway	Diabetes pathway
Function	insulin-like growth factor I binding

PDB rendering based on 1boe.

