

Recombinant Human IGFBP7, His-tagged

Cat. No. IGFBP7-1630H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Human IGFBP-rp1 (Asp 30 -Leu 282) encoding the signal peptide from human CD33 (Met 1 - Ala 16) was fused to the N-terminal 10X his tagged mature human IGFBP-rp1 (Asp 30 - Leu 282) and inserted into a suitable expression vector. The recombinant protein was expressed in a mouse myeloma cell line, NSO.
Species	Human
Source	Mammalian Cells
ProteinLength	30-282;1-16 a.a.
Description	Insulin-like growth factor binding protein 7, also known as IGFBP7 is a secretory protein. It is abundantly expressed in the uterine endometrium during the secretory phase of the menstrual cycle. Decreased IGFBP7 expression has been observed in some cancers and leiomyomata. IGFBP7 plays a potential tumor suppressor role in colorectal carcinogenesis.
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 IGF-BP7 is Mr 27.5 kDa.

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However, the actual molecular weight as observed by migration on SDS Page is Mr 36 kDa.

Formulation

This recombinant protein was 0.2 μm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives present.

Biological Activity

The biological activity of Human IGF-BP7 was determined by its ability to bind rh6Ckine/CCL21. Immobilized rhIGFBP-rp1 at 1 μg/mL (100 μL/well) can bind rh6Ckine/CCL21 with a linear range of 0.08 - 5 ng/mL in a functional ELISA.

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

IGFBP7 insulin-like growth factor binding protein 7 [Homo sapiens]

Synonyms

insulin-like growth factor binding protein 7; PSF; FSTL2; MAC25; IGFBP-7; IGFBP-7v; IGFBPRP1; IGFBP7; IBP-7; IGFBP-rP1; TAF; IGF-binding protein 7; MAC25 protein; PGI2-stimulating factor; Prostacyclin-stimulating factor; Tumor-derived adhesion factor

Gene ID

3490

mRNA Refseq

NM_001553

Protein Refseq

NP_001544

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MIM	602867
UniProt ID	Q16270
Chromosome Location	4q12
Function	insulin-like growth factor binding

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