

Recombinant Human Insulin-Like Growth Factor Binding Protein 7

Cat. No. IGFBP7-5054H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human IGFBP7 was expressed in E. coli and purified by using conventional chromatography techniques.

Species

Human

Source

Human

Description

IGF-BPs controls the distribution, function and activity of IGFs in various cell tissues and body fluids. Currently there are seven named IGF-BPs that form high affinity complexes with both IGF-I and IGF-II. IGF-BP7 is expressed in a wide range of normal human tissues and it generally shows reduced expression in cancer cell lines of prostate, breast, colon, and lung origin. It plays a role in skeletal myogenesis by binding to IGF1n a manner that inhibits IGF1nduced differentiation of skeletal myoblasts, without affecting IGF1nduced proliferation.

Form

Supplied as a lyophilized powder.

Purity

>98% pure by SDS PAGE and HPLC

Sequence

Region of IGF BP7 protein corresponding to amino acids MSSSDTCGPC
 EPASCPPLPP LGCLLGETRD ACGCCPMCAR GEGEPCGGGG AGRGYCAPGM
 ECVKSRKRRK GKAGAAAGGP GVSGVCVCKS RYPVCGSDGT TYPSSGCQLRA
 ASQRAESRGE KAITQVSKGT CEQGPSIVTP PKDIWNVTGA QVYLSCEVIG
 IPTPVLINWK VKRGHYGVQR TE

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Molecular Mass	26.4 kDa
Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	IGFBP7 insulin-like growth factor binding protein 7 [Homo sapiens]
Official Symbol	IGFBP7
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
MIM	602867
UniProt ID	Q16270

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Chromosome Location	4q12
Pathway	Senescence and Autophagy
Function	insulin-like growth factor binding; protein binding

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