

# Recombinant Human Insulin-Like Growth Factor Binding Protein 7

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human IGFBP7 was expressed in E. coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | 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 IGF1induced differentiation of skeletal myoblasts, without affecting IGF1induced proliferation. |
| <b>Form</b>             | Supplied as a lyophilized powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | >98% pure by SDS PAGE and HPLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence</b>         | Region of IGF BP7 protein corresponding to amino acids MSSSDTCGPC<br>EPASCPPLPP LGCLLGETRD ACGCCPMCAR GEGEPCGGGG AGRGYCAPGM<br>ECVKSRKRRK GKAGAAAGGP GVSGVCVCKS RYPVCGSDGT TYPSGCQLRA<br>ASQRAESRGE KAITQVSKGT CEQGPSIVTP PKDIWNVTGA QVYLSCEVIG<br>IPTPVLWNK VKRGHYGVQR TE                                                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b>   | 26.4 kDa                                                                                                                                                  |
| <b>Applications</b>     | Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions                           |
| <b>Endotoxin Levels</b> | Endotoxin level is less than 0.1 ng per ug (1 EU/ug).                                                                                                     |
| <b>Storage</b>          | 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

|                        |                                                                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">IGFBP7 insulin-like growth factor binding protein 7 [ Homo sapiens ]</a>                                                                                                                                                                       |
| <b>Official Symbol</b> | IGFBP7                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | <a href="#">3490</a>                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | <a href="#">NM_001553</a>                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | <a href="#">NP_001544</a>                                                                                                                                                                                                                                  |
| <b>MIM</b>             | <a href="#">602867</a>                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>      | Q16270                                                                                                                                                                                                                                                     |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| <b>Chromosome Location</b> | 4q12                                                |
| <b>Pathway</b>             | Senescence and Autophagy                            |
| <b>Function</b>            | insulin-like growth factor binding; protein binding |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA