

Recombinant Human IGFBP7 Protein (Ser27-Leu282), N-His-SUMO tagged, Animal-free, Carrier-free

Cat. No. IGFBP7-160H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human IGFBP7 Protein (Ser27-Leu282) with N-His-SUMO tag was expressed in HEK293 and Animal-free as well as Carrier-free. |
| Species | Human |
| Source | HEK293 |
| ProteinLength | Ser27-Leu282 |
| Description | IGFBP7, also known as mac25, prostacyclin-stimulating factor (PSF), tumor adhesion factor (TAF), and angiomodulin (AGM), is a secreted protein that belongs to the insulin-like growth factor (IGF)-binding protein (IGFBP) family. In contrast to the other family members, IGFBP7 binds IGFs through the N-terminal domain with low affinity. IGFBP7 is expressed in various human tissues, including the brain, liver, pancreas, and skeletal muscle, and is secreted into circulation. IGF-BP7 modulates many biological functions, such as protein synthesis, proliferation, anti-apoptosis, and cell survival. Moreover, it has been reported that IGFBP7 promotes cardiac senescence through IGF-1R/IRS/AKT-dependent suppression of FOXO3a, inhibiting DNA repair, subsequently the leading to the progression of Heart failure. Human and mouse IGFBP7 are highly homologous, sharing 94% a.a. sequence identity. |
| Form | Lyophilized |
| Molecular Mass | The protein has a calculated MW of 38.18 kDa. |

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| | The protein migrates as 55 kDa under reducing condition (SDS-PAGE analysis). |
| Endotoxin | < 1 EU/μg of the protein by the LAL method. |
| Purity | >95% as determined by SDS-PAGE analysis. |
| Storage | This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles. |
| Storage Buffer | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage. |

GENE INFORMATION

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| Gene Name | IGFBP7 insulin-like growth factor binding protein 7 [Homo sapiens (human)] |
| Official Symbol | IGFBP7 |
| Synonyms | IGFBP7; insulin-like growth factor binding protein 7; insulin-like growth factor-binding protein 7; FSTL2; IGFBP 7; MAC25; PSF; IGFBP-rP1; angiomodulin; IGF-binding protein 7; PGI2-stimulating factor; tumor-derived adhesion factor; prostacyclin-stimulating factor; AGM; TAF; IBP-7; IGFBP-7; RAMSVPS; IGFBP-7v; IGFBPRP1; |

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| Gene ID | 3490 |
| mRNA Refseq | NM_001253835 |
| Protein Refseq | NP_001240764 |
| MIM | 602867 |
| UniProt ID | Q16270 |

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