

Recombinant Human Insulin-like Growth Factor-Binding Protein 7 (rHuIGF-BP7)

PrimeGene Technical Data Sheet

Catalog Number:	105-01B7
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 26.4 kDa, a single non-glycosylated polypeptide chain containing 256 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	SSSDTCGPCE PASCPLPPL GCLLGETRDA CGCCPMCARG EGEPCCGGGA GRGYCAPGME CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR YPVCGSDGTT YPSGCQLRAA SQRAESRGEK AITQVSKGTC EQGPSIVTPP KDIWNVTGAQ VYLSCEVIGI PTPVLIWNKV KRGHYGVQRT ELLPGDRDNL AIQTRGGPEK HEVTGWVLVS PLSKEDAGEY ECHASNSQGQ ASASAKITVV DALHEIPVKK GEGAEL
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Testing in Progress.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.6, 150 mM NaCl.
Endotoxin:	Less than 0.1 EU/µg of rHuIGF-BP7 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Human Insulin-like Growth Factor-Binding Protein 7

IGF-BP7, also named IBP-7, Mac25 and IGFBPPr1, is belonging to the superfamily of insulin-like growth factor (IGF) binding proteins and is encoded by the *igfbp7* gene in human. It 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. IGF-BP7 includes conserved cysteine residues. IGF-BP7 modulates the biological activities of IGF proteins. It also suppresses growth and colony formation of prostate and breast cancer cell lines. Above all, IGF-BP7 is a very important factor in skeletal myogenesis. Human IGF-BP7 cDNA encodes 282 amino acid (a.a.) residue precursor protein with a putative 26 a.a. signal peptide. Human and murine IGF-BP7 share 94% a.a. sequence identity.