

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

ChemWhat Technical Data Sheet (TDS)

Catalog Number:

105-01B7

Source:

Escherichia coli.

Molecular Weight:

Approximately 26.4 kDa, a single non-glycosylated polypeptide chain containing 256 amino acids.

Quantity:

 $5\mu g/25\mu g/1000\mu g$

AA Sequence:

SSSDTCGPCE PASCPPLPPL GCLLGETRDA CGCCPMCARG EGEPCGGGGA GRGYCAPGME CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR YPVCGSDGTT YPSGCQLRAA SQRAESRGEK AITQVSKGTC EQGPSIVTPP KDIWNVTGAQ

VYLSCEVIGI PTPVLIWNKV KRGHYGVORT 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 \leq -20 $\mathbb C$. 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.

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:

ChemWhat Limited in UK offers this branded product for research, development or further

evaluation purposes. NOT FOR HUMAN USE.

Human Insulin-like Growth Factor-Binding Protein 7

IGF-BP7, also named IBP-7, Mac25 and IGFBPrP1, 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.

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