

IGF-BP7, human recombinant protein**Insulin-like growth factor binding protein-7, IBP-7, Mac25, IGF binding protein related protein-1 (I****Catalog # PBV10797r****Specification**

IGF-BP7, human recombinant protein - Product info

Primary Accession [Q16270](#)
Calculated MW **26.4 kDa KDa**

IGF-BP7, human recombinant protein - Additional Info

Gene ID **3490**
Gene Symbol **IGFBP7**

Other Names

Insulin-like growth factor binding protein-7, IBP-7, Mac25, IGF binding protein related protein-1 (IGFBPrP1)

Gene Source	Human
Source	E. Coli
Assay&Purity	SDS-PAGE; ≥98%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	SSSDTCGPCE PASCPLPPL GCLLGETRDA CGCCPMCARG EGPCGGGGA GRGYCAPGME CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR YPVCGSDGTT YPSGCQLRAA SQRAESRGEK AITQVSKGTC EQGPSIVTPP KDIWNVTGAQ VYLSCEVIGI PTPVLIWNKV KRGHYGVQRT ELLPGDRDNL AIQTRGGPEK HEVTGWVLVS PLSKEDAGEY ECHASNSQGG ASASAKITVV DALHEIPVKK GEGAEI

Target/Specificity**IGF-BP7****Application Notes**

Centrifuge the vial prior to opening. Reconstitute in acetic acid to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format**Lyophilized powder****Storage****-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Acetic Acid****IGF-BP7, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IGF-BP7, human recombinant protein - Images

IGF-BP7, human recombinant protein - Background

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 IGF in a manner that inhibits IGF induced differentiation of skeletal myoblasts, without affecting IGF induced proliferation. Additionally, IGF-BP7 suppresses growth and colony formation of prostate and breast cancer cell lines through an IGF independent mechanism, which causes a delay in the G1 phase of the cell cycle, and increased apoptosis. Recombinant human IGF-BP7 is a 26.4 kDa protein consisting of 256 amino acid residues.

IGF-BP7, human recombinant protein - References

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Yamauchi T.,et al.Biochem. J. 303:591-598(1994).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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