

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).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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