

IGF-BP7, human recombinant

CATALOG #:	7167-10	10 µg
	7167-50	50 µg
ALTERNATE NAMES:	Insulin-like growth factor binding protein-7, IBP-7, Mac25, IGF binding protein related protein-1 (IGFBPrP1)	
SOURCE:	E. Coli	
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	26.4 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Acetic Acid	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

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.

DESCRIPTION:

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.

AMINO ACID SEQUENCE:

SSSDTCGPCE PASCPLPPL GCLLGETRDA CGCCPMCARG EGEPCGGGGA
GRGYCAPGME CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR YPVCSDGTT
YPSGCQLRAA SQRAESRGEK AITQVSKGTC EQGPSIVTTP KDIWNVTGAQ
VYLSCEVIGI PTPVLIWNKV KRGHYGVQRT ELLPGDRDNL AIQTRGGPEK
HEVTGWVLVS PLSKEDAGEY ECHASNSQGQ ASASAKITVV DALHEIPVKK GEGAEI

RELATED PRODUCTS:

- IGF-BP2, human recombinant (Cat # 7165-10, -50)
- IGF-BP4, human recombinant (Cat # 7166-10, -50)
- IGF-BP1, human recombinant (Cat # 4717-10, -25, -100, -1000)
- IGF-BP3, human recombinant (Cat # 4720-25, -100, -1000)
- IGF-BP5, human recombinant (Cat # 4723-25, -100, -1000)
- IGF-BP1 Antibody (Cat # 5717-100)
- IGF-BP3 Antibody (Cat # 5720-100)
- IGF-BP5 Antibody (Cat # 5723-100)

FOR RESEARCH USE ONLY! Not to be used in humans.