

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 EGEP CGGGGA
GRGYCAPGME CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR YPVC GSDGTT
YPSGCQLRAA SQRAESRGEK AITQVSKGTC EQGPSIVTTP KDIWNVTGAQ
VYLSCEVIGI PTPVLIWNKV KRGHYGVQRT ELLPGDRDNL AIQTRGGPEK
HEVTGWVLVS PLSKEDAGEY ECHASNSQGQ ASASAKITVV DALHEIPVKK GEG AEL

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.

