



Recombinant Human IGF-BP5

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-201
Size:	25 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	3488
Synonyms:	IGFBP5; IBP5

IGF-BP5 is a member of the insulin-like growth factor binding protein (IGF-BP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein forms a ternary complex with insulin-like growth factor acid-labile subunit (IGFALS) and either insulin-like growth factor (IGF) I or II. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering their interaction with cell surface receptors. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Sequence

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MLGSFVHCEP CDEKALSMCP PSLPGCELVK EPGCGCMTTC  
ALAEGQSCGV YTERCAQGLR CLPRQDEEKP LHALLHGRGV  
CLNEKSYREQ VKIERDSREH EEPTTSEMAE ETYSPKIFRP  
KHTRISELKA EAVKKDRRKK LTQSKFVGGA ENTAHPRIIS  
APEMRQSESEQ GPCRRHMEAS LQELKASPRM VPRAVYLPNC  
DRKGFYKRKQ CKPSRGRKRG ICWCVDKYGM KLPGMEYVDG  
DFQCHTFDSS NVS
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Database References

Protein RefSeq:	NP_000590.1
Uniprot ID:	P24593
mRNA RefSeq:	NM_000599

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	253
MW:	28.6 kDa

Biological Activity: The ED50 was determined by its ability to inhibit IGF-II induced proliferation of MCF-7 is ≤ 0.3 µg/ml in the presence of 15 ng/ml of human IGF-II.



AVOID REPEATED FREEZE AND THAW CYCLES!