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IGFBP3 Human

IGFBP3 Human Recombinant
GRF0180

Product Overview

Name	IGFBP3 Human
Description	
IGFBP3 Human Recombinant	
Accession (Primary)	P17936
Synonyms	
GH-dependant binding protein, IBP3, BP-53, IGFBP-3.	
Introduction	
IGFBP3 is a member of the IGFBP family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein forms a ternary complex with IGFALS and either 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm filtered concentrated (0.5mg/ml) solution in PBS, pH 7.4.	
Stability	
Lyophilized IBP3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGF-BP 3 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
GASSAGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCALSEGQPCGIYTERCGSGL RCQPSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVESPSVSST HRVSDPKFHPLHSKIIIIKKGHAKDSQRYKVDYESQSTDTQNFSSESKRETEYGPCRREMEDTLN HLKFLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTTKGKEDVHCYSMQSK	

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Biological Activity

The ED 50, calculated by by its ability to inhibit IGF-II induced proliferation of MCF-7 is < 200ng/ml in the presence of 15ng/ml of Human IGF-II, corresponding to a specific activity of 5.0 × 10 3 IU/mg.

Solubility

It is recommended to reconstitute the lyophilized IGFBP3 in sterile 20mM AcOH (acetic Acid) not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

Title :The role of IGFBP3 in the growth inhibitory actions of androgens in LNCaP human prostate cancer cells. Publication :Article first published online: 4 OCT 2007 DOI:10.1002/ijc.23100 Copyright © 2007 Wiley-Liss, Inc. Link : IGFBP3 prospec publication

Precautions

IGFBP3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P17936)