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## Product Data Sheet

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Product Name: IGFBP 5 Human

Cat. No.: GP20431

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IGFBP-5; IBP-5; IGF-binding protein 5.		
Amino Acid Sequence	LGSFVHCEPC DEKALSMCPP SPLGCELVKE PGCGCCMTCA LAEGQSCGVY TERCAQGLRC LPRQDEEKPL HALLHGRGVC LNEKSYREQV KIERDSREHE EPTTSEMAEE TYSPKIFRPK HTRISELKAE AVKKDRRKKL TQSKFVGGAE NTAHPRIISA PEMRQESEQG PCRRHMEASL QELKASPRMV PRAVYLPNCD RKGFYKRKQC KPSRGRKRGI CWCVDKYGMK LPGMEYVDGD FQCHTFDSSN VE.		
Solubility	It is recommended to reconstitute the lyophilized Insulin-Like Growth Factor Binding Protein-5 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	IBP-5 was lyophilized from a concentrated (1mg/ml) solution containing 10mM sodium Citrate pH-3.		

**Introduction**

IGFBP5 is a member of the insulin-like growth factor binding protein (IGFBP) 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.

**Biological Activity**

The ED<sub>50</sub>, calculated by its ability to inhibit IGF-II induced proliferation of MCF-7. The expected ED<sub>50</sub> for this effect is < 0.4μg/ml, corresponding to a specific activity of >

**Caution: Product has not been fully validated for medical applications. For research use only.**

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2500 IU/mg in the presence of 15ng/ml of rHuIGF-II.

### Stability

Lyophilized IBP5 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IGFBP 5 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

IGFBP5 Human Recombinant produced in E.Coli is non-glycosylated homodimer containing 2x252 amino acids and having a molecular mass of 28.6kDa. IGFBP5 is purified by proprietary chromatographic techniques.

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