

## IGFBP 5 Human

**Description:**IGFBP5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 253 amino acids and having a molecular mass of 28613 Dalton. IGFBP5 is purified by proprietary chromatographic techniques.

**Synonyms:**IGFBP-5, IBP-5, IGF-binding protein 5.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:**The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Gly-Ser-Phe.

**Purity:**Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**

IBP-5 was lyophilized from a concentrated (1mg/ml) solution containing 10mM sodium Citrate PH 3.0.

**Stability:**

Lyophilized IBP5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGFBP 5 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.

**Usage:**

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**Solubility:**

It is recommended to reconstitute the lyophilized Insulin-Like Growth Factor Binding Protein-5 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**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 ED50, calculated by its ability to inhibit IGF-II induced proliferation of MCF-7 is < 0.3

**References:**

Title:Effects of Dietary Carbohydrate Modificationin Persons with the Metabolic Syndrome- A

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