IGFBP5
Recombinant Human Insulin-Like Growth Factor Binding Protein-5

Catalog No.	CRI509A	**Quantity:**	5 µg
	CRI509B		25 µg
	CRI509C		1.0 mg

Alternate Names: IBP5, insulin-like growth factor-binding protein 5, IBP-5, IGFBP-5, IGF-binding protein 5

Description: 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.

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

Source: *E. coli*

Molecular Mass: 28613 Dalton

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

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

Purification: IGFBP5 is purified by proprietary chromatographic techniques.

Biological Activity: The ED_{50}, calculated 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 corresponding to a Specific Activity of 66,667IU/mg.

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.

Solubility: It is recommended to reconstitute the lyophilized Insulin-Like Growth Factor Binding Protein-5 in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Storage & 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.

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