11 Park Drive, Suite 12
Boston, MA 02215

Human Insulin-Like Growth Factor Binding Protein 5 (IGFBP-5)

ORDERING INFORMATION

Catalog No: rAP-0050;
Size: 5 µg; 25 µg
Storage: <- 20° C

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

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.

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.

Source:
Escherichia Coli.

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

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

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

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.

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

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.

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Fax: (480) 247-4337, angioproteomie@gmail.com

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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.

Usage:

Angio-Proteomie's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.