



11 Park Drive, Suite 12  
Boston, MA 02215

## Human Insulin-Like Growth Factor Binding Protein 1 (IGFBP-1)

### ORDERING INFORMATION

Catalog No: rAP-0048;

Size: 5 µg; 20 µg

Storage: <- 20° C

### Synonyms:

IBP-1, IGF-Binding Protein 1, AFBP, PP12, IGF-BP25, hIGFBP-1, IGFBP-1.

### Intorduction:

IGFBP1 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 binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

### Description:

Insulin-Like Human Recombinant is a single, glycosylated, Growth Factor Binding Protein-1 polypeptide chain containing 218 amino acids and having a molecular mass of 28806 Dalton.  
IGF-Binding Protein 1 is purified by proprietary chromatographic techniques.

### Source:

NSO cells

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

The protein was lyophilized with 10mM HCL.

### Solubility:

It is recommended to reconstitute the lyophilized IBP-1 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Stability:

Lyophilized IGFBP1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C.

Upon reconstitution IGF-BP1 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 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Biological Activity:

Inhibition of IGF-I stimulated proliferation of NUC-1 cells: IC<sub>50</sub> ~ 100 ng/ml Inhibition of serum-induced stimulation of DNA synthesis in chick embryo fibroblast primary cultures: IC<sub>50</sub> (1% serum) ~300 ng/ml.

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



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**References:**

Liu S. *et al.* (1991) *Biochem. Biophys. Res. Comm.* 174, 673-679  
Schuller A. G. *et al.* (1993) *Growth Regulation* 3, 32-34

**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.

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