

## IGFBP 1 Human

**Description:**IGFBP1 native Human is a single, glycosylated, polypeptide chain containing 218 amino acids and having a molecular mass of 25.3kDa. IGFBP1 is purified by proprietary chromatographic techniques.

**Catalog #:**CYPS-306

For research use only.

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

**Source:**Human amniotic fluid

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

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

The protein was lyophilized with 10mM HCL.

**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.

**Usage:**

NeoBiolab'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.

**Solubility:**

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

**Introduction:**

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.

**Biological Activity:**

Inhibition of IGF-I stimulated proliferation of NUC-1 cells: IC50 ~ 100 ng/ml Inhibition of serum-induced stimulation of DNA synthesis in chick embryo fibroblast primary cultures: IC50 (1% serum) ~300 ng/ml corresponding to a Specific Activity of 3,334IU/mg.

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