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IGFBP-1, Native Human

Catalog Number: BP1BU020 **Size:** 20µg
BP1BU100 **Size:** 100 µg

Description: Native human Insulin-like Growth Factor Binding Protein-1 (IGFBP-1) is a 218 amino acid protein that is a member of a family of six circulating proteins which bind IGF-I and IGF-II with high affinity and modulate their metabolic and mitogenic effects. The liver, ovarian granulosa cells, decidualized endometrium and a number of other cell types produce native human IGFBP-1. IGFBP-1 binds both IGF-I and IGF-II. Serum IGFBP-1 levels are regulated by insulin-induced inhibition of IGFBP-1 production. IGFBP-1 appears to inhibit smooth muscle migration in response to IGF-I or IGF-II and to stimulate wound healing in response to IGF-II.

Source: Purified from human amniotic fluid of individuals that have been shown by certified tests to be negative for hepatitis.

Purity: >95% (by FPLC and SDS-PAGE) Consists of 3-4 phosphorylated forms.

Molecular Weight: 25.3 kDa

State/Appearance: Lyophilized white powder dried from 10mM HCI and stored under dry nitrogen at a slight vacuum (-25 kPa),

Storage/Stability: At least 2 years at 2-4°C (lyophilized). In lyophilized form, the IGFBP is stable for at least 2 years at 2-4°C, or 6 months at room temperature.

Biological Activity: Inhibition of IGF-I stimulated proliferation of NUC-1 cells: IC_{50} ~ 100 ng/ml.
Inhibition of serum-induced stimulation of DNA synthesis in chick embryo fibroblast primary cultures: IC_{50} (1% serum) ~300 ng/ml.

Reconstitution: Avoid freeze-thaw cycles.

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

Reconstitution: Refer to Protocol 1100: Handling Of IGF Binding Proteins 1-6

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