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

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

Introduction: IGFBP-1 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: Recombinant human IGFBP-1 is a single, glycosylated, polypeptide chain containing 218 amino acids and having a molecular mass of 25.3 kDa. rh IGFBP-1 is purified by proprietary chromatographic techniques.

Source: Human aminotic fluid

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The protein was lyophilized with 10 mM HCL.

The aliquots/samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh IGFBP-1 in sterile H_2O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IGFBP-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh IGFBP-1 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 SDS-PAGE.

Biological Activity: Inhibition of IGF-I stimulated proliferation of NUC-1 cels: IC₅₀ ~ 100 ng/ml.

Inhibition of serum-induced stimulation of DNA synthesis in chick embryo fibroblast

primary culteres: IC₅₀ (1% serum) ~ 300 ng/ml.

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small	5 µg	Cat.N°	11343800
medium	20 µg	Cat.N°	11343804