

## IGFBP 4 Human

**Description:**IGFBP-4 Human Recombinant amino acids Asp22- Glu258, produced in HEK293 cells and fused with a polyhistidine tag at the C-terminus. IGFBP4 predicted Mw is 27kDa and on SDS-PAGE appears as a 32kDa band under denaturing conditions.IGFBP4 is purified by proprietary chromatographic techniques.

**Synonyms:**Insulin-like growth factor-binding protein 4, IBP-4, IGF-binding protein 4, IGFBP-4, IGFBP4, IBP4, BP-4, HT29-IGFBP.

**Source:**HEK293 cells.

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

**Amino Acid Sequence:**DEAIHCPPCS EEKLARCRPP VGCEELVREP GCGCCATCAL  
GLGMPCGVYT PRCGSLRCY PPRGVEKPLH TLMHGQGVCM ELAEIAIQE SLQPSDKDEG  
DHPNNSFSPC SAHRRRLQK HFAKIRDRST SGGKMKVNGA PREDARVPVQ GSCQSELHRA  
LERLAASQSR THEDLYIPI PNCDRNGNFH PKQCHPALDG QRGKCWCVDK KTGKLPGL  
EPKGELDCHQ LA

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

**Formulation:**

IGFBP 4 was lyophilized after extensive dialysis against PBS.

**Stability:**

Lyophilized IGFBP4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGFBP-4 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 IGFBP4 in sterile 18M-cm H2O not less than 100

**Introduction:**

Insulin-like growth factor-binding protein 4 (IGFBP-4) belongs to the insulin-like growth factor binding protein (IGFBP) family. IGFBP4 includes an IGFBP domain and a thyroglobulin type-I domain. IGFBP4 binds both insulin-like growth factors (IGFs) I and II. IGFBP-4 circulates in the plasma in both glycosylated and non-glycosylated forms. IGFBPs can either inhibit or enhance the biological activities of IGF, or act in an IGF independent manner. IGFBP-4 is exceptional since it consistently inhibits several cancer cells in vivo and in vitro, suggesting that it may function as an apoptotic factor. IGFBP4 is produced by all colon cancer cells. Binding of IGFBP-4 prolongs the half-life of the IGFs and changes their interaction with cell surface receptors.

**Biological Activity:**

The ED50 range is 0.01-0.09

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Catalog #:CYPs-037

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