

Insulin-Like Growth Factor Binding Protein-5 Human Recombinant

Item Number	rAP-2307
Synonyms	IGFBP-5, IBP-5, IGF-binding protein 5.
Description	IGFBP5 Human Recombinant produced in E.Coli is non-glycosylated homodimer containing 2x252 amino acids and having a molecular mass of 28.6kDa. IGFBP5 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P24593
Amino Acid Sequence	LGSFVHCEPC DEKALSMCPP SPLGCELVKE PGCGCCMTCA LAEGQSCGVY TERCAQGLRC LPRQDEEKPL HALLHGRGVC LNEKSYREQV KIERDSREHE EPTTSEMAEE TYSPKIFRPK HTRISELKAE AVKKDRRKKL TQSKFVGGAE NTAHPRIISA PEMRQESEQG PCRRHMEASL QELKASPRMV PRAVYLPNCD RKGIFYKRKQC KPSRGRKRG I CWCVDKYGMK LPGMEYVDGD FQCHT- FDSSN VE.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized IBP5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGFBP 5 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.
Formulation and Purity	IBP-5 was lyophilized from a concentrated (1mg/ml) solution containing 10mM sodium Citrate pH-3. Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Insulin-Like Growth Factor Binding Protein-5 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50, calculated by its ability to inhibit IGF-II induced proliferation of MCF-7. The expected ED50 for this effect is $0.4\mu\text{g}/\text{ml}$, corresponding to a specific activity of $2500\text{ IU}/\text{mg}$ in the presence of 15ng/ml of rHulGF-II.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**