



Human IGF-BP4 (glycosylated, InCs)

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

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order#	Lot#	Expiry Date
2 µg	1488.952.005		
10 µg	1488.952.020		
100 µg	1488.952.100		

Please enquire for bulk quantities and other vial sizes.

Description

Insulin Like Growth Factor Binding Protein-4 Human Recombinant produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 237 amino acids and having a molecular mass of 30kDa.

- **Biological Activity** ≥ 1 × 10⁴ IU/mg in the presence of 14 ng/ml of rHuIGF-II
- **Source** Insect cells
- **Purity** ≥ 97 % (SDS-PAGE, RP-HPLC)
- **Endotoxin Level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Buffer** Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH 8.0 and 150mM NaCl*
- **Physical State** Sterile filtered, lyophilized

Biological Activity

The ED₅₀ is determined by its ability to inhibit IGF-II induced proliferation of MCF-7 cells and is <than 0.1 µg/ml, corresponding to a specific activity of > 1.0 × 10⁴ IU/mg in the presence of 14 ng/ml of rHuIGF-II.

Reconstitution

It is recommended to reconstitute the lyophilized Insulin Like Growth Factor Binding Protein-4 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized IGFBP4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Insulin Like Growth Factor Binding Protein-4 should be stored at 4°C between 2-7 days and for future use below -18°C. **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

DEAIHCPPCS EEKLARCRPP VGCEELVREP GCGCCATCAL GLGMPCGVYT PRCGSGLRGY PPRGVEKPLH
 TLMHGQGVCM ELAEIEAIQE SLQPSDKDEG DHPNNSFSPC SAHDRRCLQK HFAKIRDRST SGGKMKVNGA
 PREDARPVPQ GSCQSELHRA LERLAASQSR THEDLYIIP I PNCDRNGNFH PKQCHPALDG QRGKWCVDR
 KTGVKLPGGL EPKGELDCHQ LADSFRE

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.