

RPPB0434

Product Information Protein Information

Product SKU:

RPPB0434

Accession:

P22692

Host:

Sf9, Insect cells.

Protein 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. The IGFBP4 is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

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

Formulation:

Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH 8.0 and 150mM NaCl.

Purity:

Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Solubility:

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 prevent freeze-thaw cycles.

Amino Acid Sequence:

DEAIHCPPCS EEKLARCRPP VGCEELVREP GCGCCATCAL GLGMPCGVYT PRCGSGRLRCY PPRGVEKPLH
TLMHGQGVCM ELAEIAIQE SLQPSDKDEG DHPNNSFSPC SAHRRCLQK HFAKIRDRST SGGKMKVNGA
PREDARVPVQ GSCQSELHRA LERLAASQSR THEDLYIPI PNCDRNGNFH PKQCHPALDG QRGKWCVDR
KTGVKLPGGL EPKGELDCHQ LADSFRE.

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.