

Recombinant Human Insulin-like Growth Factor-Binding Protein 3 (Human IGF-BP3)

Product Information

Product Name	Cat#	Size
	92202ES08	5μg
Recombinant Human Insulin-like Growth Factor-Binding Protein 3 (Human IGF-BP3)	92202ES60	100μg
	92202ES76	500μg

Product Description

IGF-BP3 is a 30 kDa, cysteine-rich secreted protein. It is the major IGF binding protein present in the plasma of human and animals, and it is also found in α -granules of platelets. In addition to its ability to modulate the activity of IGF-I and IGF-II, IGF-BP3 exerts inhibitory effects on follicle stimulating hormone (FSH) activity. Decreased plasma levels of IGF-BP3 often results in dwarfism, whereas elevated levels of IGF-BP3 may lead to acromegaly. The expression of IGF-BP3 in fibroblasts is stimulated by mitogenic growth factors, such as Bombesin, Vasopressin, PDGF, and EGF. Recombinant Human IGF-BP3 is a 28.8 kDa protein consisting of 264 amino acid residues.

Product Properties

Synonyms	Growth-hormone-dependant Binding Protein, IBP-3, IGF-binding protein 3
Accession	P17936
GeneID	3486
Source	E.coli-derived Human IGF-BP3 protein,Gly28-Lys291.
Molecular Weight	Approximately 28.8 kDa.
AA Sequence	GASSAGLGPV VRCEPCDARA LAQCAPPVAV CAELVREPGC GCCLTCALSE GQPCGIYTER CGSGLRCQPS PDEARPLQAL LDGRGLCVNA SAVSRLRAYL LPAPPAGNA SESEEDRSAG SVESPSVSST HRVSDPKFHP LHSKIIIIKK GHAKDSQRYK VDYESQSTDT QNFSSSEKRE TEYGPCRREM EDTLNHLKFL NVLSPRGVHI PNCDKKGfYK KKQCRPSKGR KRGFCWCVDK YGQPLPGYTT KGKEDVHCYS MQSK
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by inhibiting IGF-II induced proliferation of serum free human MCF-7 cells is less than 200 ng/mL, corresponding to a specific activity of > 5.0 × 10 ³ IU/mg in the presence of 15 ng/mL of rHuIGF-II.
Endotoxin	< 1.0 EU per 1μg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.