

IGFBP-3 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	BP-53;IGFBP3;IBP3;insulin-like growth factor binding protein 3
Protein Construction:	Gly28-Lys291
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH18962
Molecular Weight:	29.8 kDa (Predicted); 45-60 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human IGFBP-3, His Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Human IGF-II, hFc Tag with the EC50 of 0.19 µg/ml determined by ELISA (QC Test). Human IGFBP-3, His Tag captured on CM5 Chip via anti-his antibody can bind Human IGFI, hFc Tag with an affinity constant of 2.32 nM as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Insulin-like growth factor binding protein-3 (IGFBP-3) is a p53 tumor suppressor-regulated protein and a major carrier for IGFs in circulation. Among six high-affinity IGFBPs, which are IGFBP-1 through 6, IGFBP-3 is the most extensively investigated IGFBP species with respect to its IGF/IGF-I receptor (IGF-IR)-independent biological actions

beyond its endocrine/paracrine/autocrine role in modulating IGF action in cancer.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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