

General Information

Gene Name Synonym

cDNA FLJ34387 fis, clone HCHON1000191, highly similar to Insulin-like growth factor-binding protein 3; cDNA FLJ38550 fis, clone HCHON2002123, highly similar to Insulin-like growth factor-binding protein 3; cDNA PSEC0177 fis, clone OVARC1000287, highly similar to Insulin-like growth factor-binding protein 3

Protein Construction

A DNA sequence encoding the mature form of human IGFBP3 (NP_000589.2) (Gly28-Lys 291) was fused with a polyhistidine tag at the N-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its binding ability in a functional ELISA. Immobilized human IGF2 (Cat:13032-H24E) at 10 µg/mL (100 µl/well) can bind biotinylated Human His-IGFBP3, The EC₅₀ of biotinylated Human His-IGFBP3 is 18 ng/mL.
2. Measured by its binding ability in a functional ELISA. Immobilized human IGF1 (Cat:10598-H24E) at 10 µg/mL (100 µl/well) can bind biotinylated Human His-IGFBP3, The EC₅₀ of biotinylated Human His-IGFBP3 is 24 ng/mL.
3. Measured by its ability to inhibit the biological activity of IGF1 or IGFII on MCF7 human breast adenocarcinoma cells (Karey, K.P. et al. (1988) Cancer Research 48:4083.). The ED₅₀ for this effect is typically 0.02-0.2 µg/mL in the presence of 14 ng/mL human IGFII.

Purity

> 85 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

His 1

Molecular Mass

The secreted recombinant human IGFBP3 comprises 280 amino acids with a predicted molecular mass of 31 kDa. As a result of glycosylation, the apparent molecular mass of rhIGFBP3 is approximately 40-45 kDa in SDS-PAGE under reducing conditions.

Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
 2. Please contact us for any concerns or special requirements.

Usage Guide

Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

Human IGFBP3 (His Tag) recombinant protein



Catalog Number: 501024

Human IGFBP3 / IBP3 Protein (His Tag) SDS-PAGE

SDS-PAGE

