

Human IGFBP4 (His Tag) recombinant protein



Catalog Number: 501617

General Information

Protein Construction

A DNA sequence encoding the human IGFBP4 (NP_001543.2) precursor (Met 1-Glu 258) with a C-terminal polyhistidine tag was expressed.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its ability to bind human IGF1 (Cat:10598-H24E) in functional ELISA.
2. Measured by its ability to bind human IGF2 (Cat:13032-H24E) in functional ELISA.
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 0.04-0.4 µg/mL in the presence of 14 ng/mL human IGFII.

Purity

> 95 % 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

Asp 22

Molecular Mass

The secreted recombinant human IGFBP4 comprises 248 amino acids with a predicted molecular mass of 27.4 kDa. As a result of glycosylation, it migrates as an approximately 32 kDa band 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

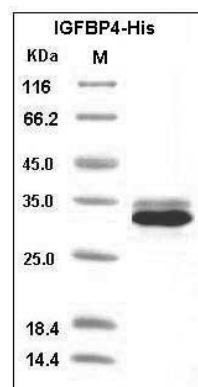
Storage

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.

SDS-PAGE



Human IGFBP4 Protein (His Tag) SDS-PAGE