

RP00390

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Recombinant Human IGFBP-4 Protein

Catalog No.: RP00390

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	3487	P22692

Tags

C-6×His

Synonyms

IGFBP4;BP-4;HT29-IGFBP;IBP4;IGFBP-4

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

This protein is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma in both glycosylated and non-glycosylated forms. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors.

Basic Information

Description

Recombinant Human IGFBP-4 Protein is produced by Human Cell expression system. The target protein is expressed with sequence (Asp22-Glu258) of human IGFBP-4 (Accession #P22692) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit the biological activity of IGF-II on MCF-7 human breast cancer cells. Karey, K.P. et al. (1988) Cancer Research 48:4083. The ED₅₀ for this effect is 0.03-0.09 μg/mL in the presence of 14 ng/mL recombinant human IGF-II.

Storage

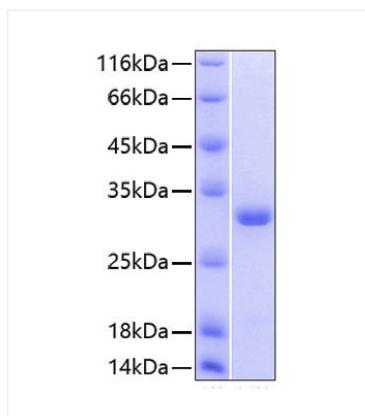
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact



www.abclonal.com

Validation Data



Recombinant protein Human IGFBP-4 was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 30 kDa.