Recombinant Human IGFBP-1 Protein

Catalog No.: RP00237

Sequence Information

Species
Human

Gene ID
3484

Swiss Prot
P08833

Tags
C-His

Synonyms
AFBP, IBP1, IGF-BP25, PP12, hIGFBP-1,IGFBP1,IBP1,IGF-BP25, PP12,hIGFBP-1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
26.11 kDa

Observed MW
20-30 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The superfamily of insulin-like growth factor (IGF) binding proteins include the six high-affinity IGF binding proteins (IGFBP) and at least four additional low-affinity binding proteins referred to as IGFBP related proteins (IGFBP-rP). All IGFBP superfamily members are cysteine-rich proteins with conserved cysteine residues, which are clustered in the amino- and carboxy-terminal thirds of the molecule. IGFBPs modulate the biological activities of IGF proteins. Some IGFBPs may also have intrinsic bioactivity that is independent of their ability to bind IGF proteins. Post-transitional modifications of IGFBP, including glycosylation, phosphorylation and proteolysis, have been shown to modify the affinities of the binding proteins to IGF.

Basic Information

Description
Recombinant Human IGFBP-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala26-Asn259) of human IGFBP-1 (Accession #NP_000587.1) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human IGFBP-1 at 5 μg/mL (100 μL/well) can bind Recombinant Human IGF1 with a linear range of 44-176 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

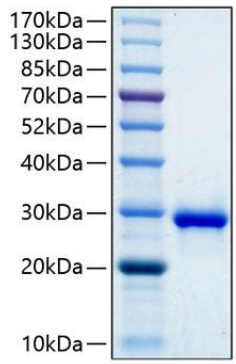
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

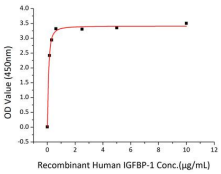
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human IGFBP-1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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