Recombinant Human IGFBP-4 Protein

Catalog No.: RP00185

Sequence Information

Species
Human

Gene ID
3487

Swiss Prot
P22692

Tags
C-His

Synonyms
IGFBP4,BP-4,HT29-IGFBP,IBP4, IGFBP-4

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
28.77 kDa

Observed MW
35 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

IGFBP-4 (insulin-like growth factor binding protein 4) is member of the IGFBP family of structurally similar secreted glycoproteins . IGFBP-4 binds both insulin-like growth factor 1 (IGF-1) and IGF-2 with high affinity and inhibits IGF action in vitro. It 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. There is mounting evidence that IGFBP proteins plays a key role in the regulation of IGF bioavailability, by modulating its molecular size, capillary membrane permeability, target tissue specificity, cell membrane adherence and IGF affinity.

Basic Information

Description
Recombinant Human IGFBP-4 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met1-Glu258) of human IGFBP-4 (Accession #NP_001543.2) fused with a 6×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Human IGFBP4 at 1 μg/mL (100 μL/well) can bind Human IGF1 with a linear range of 1.95-111.32 ng/mL.
2.Measured by its binding ability in a functional ELISA. Immobilized Human IGFBP4 Protein at 1 μg/mL (100 μL/well) can bind IGF1 with a linear range of 1.95-122.3ng/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℃

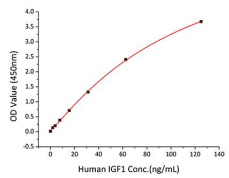
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

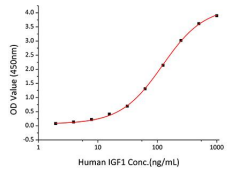
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Please visit http://abclonal.com for a complete listing of recommended products.

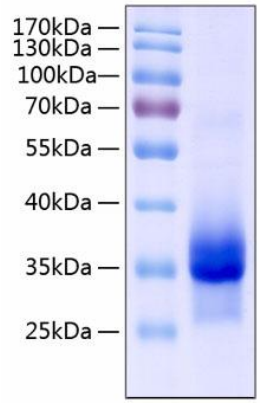
Validation Data



Immobilized Human IGFBP4 at 1 μg/mL (100 μL/well) can bind Human IGF1 with a linear range of 1.95-111.32 ng/mL.



Immobilized Human IGFBP4 Protein at 1 μg/mL (100 μL/well) can bind IGF1 with a linear range of 1.95-122.3ng/mL.



Recombinant Human IGFBP-4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.