

Active Recombinant Human IGFBP-1 Protein

Catalog No.: RP00237 **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 3484 | P08833 |

Tags

C-His

Synonyms

AFBP; IBP1; IGF-BP25; PP12;
hIGFBP-1;IGFBP1;IBP1;IGF-
BP25;PP12;hIGFBP-1

Product Information

| Source | Purification |
|--------------|------------------------|
| HEK293 cells | > 97% by SDS- PAGE. |

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 stabilizer (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-translational modifications of IGFBP, including glycosylation, phosphorylation and proteolysis, have been shown to modify the affinities of the binding proteins to IGF.

Basic Information

Description

Active 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.

Bio-Activity

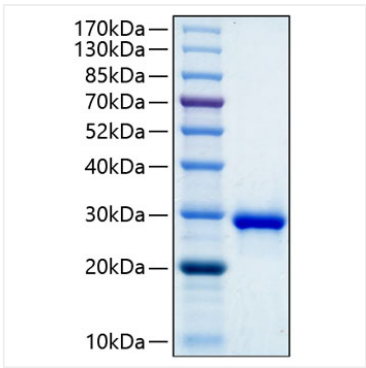
Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human IGFBP-1 at 5 μg/mL (100 μL/well) can bind Recombinant Human IGF1 with a linear range of 44-176 ng/mL.

Storage

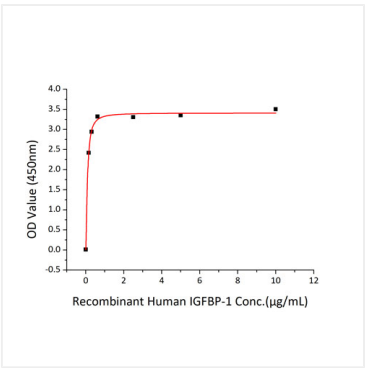
Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Contact

Validation Data



Active Recombinant Human IGFBP-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 29 kDa.



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