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Recombinant Human Intrinsic factor/CBLIF Protein

Catalog No.: RP02842 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	2694	P27352-1

Tags
C-His

Synonyms
Cobalamin binding intrinsic factor; IF; GIF; INF; IFMH; TCN3;CBLIF

Product Information

Source
HEK293 Cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
44.25 kDa

Observed MW
45-60 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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.

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Background

Gastric intrinsic factor, also known as GIF, belongs to the of the cobalamin transport protein family. It is a glycoprotein produced by the parietal cells of the stomach. Gastric intrinsic factor plays a key role in the absorption of vitamin B12 on in the small intestine. Vitamin B12 bounds to haptocorrin after entry into the stomach. The resulting complex enters the duodenum, where pancreatic enzymes digest haptocorrin. In the less acidic environment of the small intestine, B12 can then bind to gastric intrinsic factor. This new complex travels to the ileum, where special epithelial cells endocytose them. Inside the cell, B12 dissociates once again and binds to another protein, transcobalamin II. The new complex can exit the epithelial cells to enter the liver.

Basic Information

Description
Recombinant Human Intrinsic factor/CBLIF Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Ser19-Tyr417) of human Intrinsic factor/CBLIF (Accession #NP_005133.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

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

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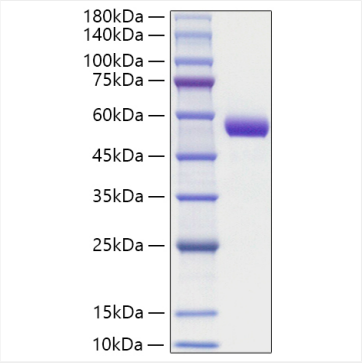
Validation Data



Recombinant Human Intrinsic factor/CBLIF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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