

Recombinant Human Intrinsic factor/CBLIF Protein

Catalog No.: RP02842

Sequence Information

Species Gene ID

Human 2694

Swiss Prot Tags

P27352-1 C-His

Synonyms

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

Product Information

Source Purification

HEK293 Cells ≥ 95 % as
determined by
SDS-PAGE.

Calculated MW Observed MW

44.25 kDa 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 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

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 binds 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.

Activity

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°C

Operational Notes

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

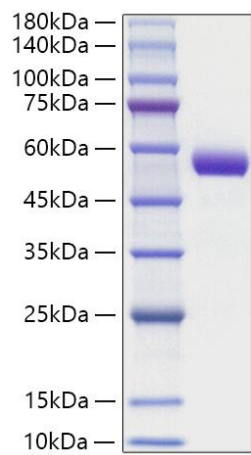
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Validation Data



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