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Datasheet for ABIN7317227
Intrinsic Factor Protein (His tag)

Overview

Quantity:	50 µg
Target:	Intrinsic Factor (GIF)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Intrinsic Factor protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Gastric intrinsic factor/GIF Protein (His Tag)
Sequence:	Met 1-Tyr417
Characteristics:	A DNA sequence encoding the human GIF (P27352-1) (Met1-Tyr417) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Intrinsic Factor (GIF)
Alternative Name:	Gastric intrinsic factor/GIF (GIF Products)
Background:	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.

Target Details

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.

Synonym: IF,IFMH,INF,TCN3

Molecular Weight: 44.8 kDa

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.