

Recombinant Human Gastric Intrinsic Factor (vitamin B synthesis)

Cat. No. GIF-5359H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GIF produced in baculovirus is a glycosylated, polypeptide chain containing having a molecular mass of 55,000 Dalton. rHu GIF is fused to a hexa-histidine at the C-terminus and purified by proprietary chromatographic techniques for removal of bound Vitamin B-12.
Species	Human
Source	Sf9 Cells
Description	GIF is a member of the cobalamin transport protein family. It encodes a glycoprotein secreted by parietal cells of the gastric mucosa and is required for adequate absorption of vitamin B12 in the terminal ileum.
Form	The protein solution (0.7 mg/ml) contains 20 mM HEPES pH8, 100 mM NaCl, 20% Glycerol.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Endotoxin Level	Less than 0.1 ng/ug (IEU/ug) of recombinant Human GIF.
Biological Activity	Standard ELISA test (checker-board analysis of positive/negative sera panels), immunodot with anti-IF autoantibody positive patient sera. Can be used for solid ELISA and fluid phase diagnostic assays, 0.25-0.65g/ml. Suitable for biotinylation

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Storage

GIF although stable at 10°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Official Symbol

GIF

GENE INFORMATION

Gene Name

GIF gastric intrinsic factor(vitamin B synthesis) [Homo sapiens]

Synonyms

GIF; gastric intrinsic factor(vitamin B synthesis); IF; INF; IFMH; TCN3; Gastric intrinsic factor; Intrinsic factor

Gene ID

2694

mRNA Refseq

NM_005142

Protein Refseq

NP_005133

MIM

609342

UniProt ID

P27352

Chromosome Location

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Pathway

Vitamin digestion and absorption

Function

cobalamin binding

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