

## Recombinant Human Gastric Intrinsic Factor (vitamin B synthesis)

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

### SPECIFICATION

|                            |   |
|----------------------------|---|
| <b>Product Overview</b>    | 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 hexahistidine at the C-terminus and purified by proprietary chromatographic techniques for removal of bound Vitamin B-12. |
| <b>Species</b>             | Human   |
| <b>Source</b>              | Sf9 Cells   |
| <b>Description</b>         | 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.   |
| <b>Form</b>                | The protein solution (0.7 mg/ml) contains 20 mM HEPES pH8, 100 mM NaCl, 20% Glycerol.   |
| <b>Purity</b>              | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.   |
| <b>Endotoxin Level</b>     | Less than 0.1 ng/ug (IEU/ug) of recombinant Human GIF.  |
| <b>Biological Activity</b> | 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**

11

**Pathway**

Vitamin digestion and absorption

**Function**

cobalamin binding

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