

Recombinant Human GIF, His-tagged

Cat. No. GIF-1288H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GIF, a glycosylated, polypeptide chain fused with hexahistidine tag at C-terminal was expressed in Sf9 Insect Cells.
Species	Human
Source	Sf9 Cells
Description	Intrinsic Factor 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. Vitamin B12 is essential for erythrocyte maturation and mutations in the Intrinsic Factor may lead to congenital pernicious anemia. Upon entry into the stomach, vitamin B12 binds to one of two B12 binding proteins present in the gastric fluid. In the less acidic environment of the small intestine, these proteins dissociate from the vitamin, allowing it to bind to intrinsic factor and enter the portal circulation through a receptor in the ileal mucosa specific for the B12-intrinsic factor complex.
Form	The protein solution (0.7mg/ml) contains 20mM HEPES pH-8, 100mM NaCl, 20% Glycerol.
Molecular Mass	55,000 Dalton
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Stability

Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name

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

Official Symbol

GIF

Synonyms

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**

11q13

Pathway

Cobalamin (Cbl, vitamin B12) transport and metabolism, organism-specific biosystem; Defective AMN causes hereditary megaloblastic anemia 1, organism-specific biosystem; Defects in cobalamin (B12) metabolism, organism-specific biosystem

Function

cobalamin binding

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