

Active Recombinant Human GIF Protein

Cat. No. GIF-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GIF was expressed in Arabidopsis thaliana.
Species	Human
Source	Arabidopsis thaliana
ProteinLength	399 amino acids
Description	This gene 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. Vitamin B12 is necessary for erythrocyte maturation and mutations in this gene may lead to congenital pernicious anemia.
Form	Dialysed against HPLC-grade water and sterile filtered, lyophilized apoIF (1.2mg), > 90% solids.
Bio-activity	Binds 1 mole B12 per 1 mole rhIF, measured by a specific cobalamin-binding assay in HPLC-SEC
AA Sequence	Has a predicted molar mass of 50 kDa.
Purity	> 95% as determined by HPLC-SEC and SDS-PAGE
Notes	The intrinsic factor is purified as the full-length protein using chromatographic techniques, unoccupied, as apoIF50 (free of B12 or other bound molecules).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

The protein does not contain any N- or C-terminal tags often used to facilitate purification, av

Storage

Lyophilized sample stable at room temperature.
Freeze reconstituted samples at -20 centigrade and avoid repeated freeze-thaw cycles.

Reconstitution

Reconstitute in water or recommended buffer, e.g. 0.15M phosphate (pH7.5), depending upon your application.

GENE INFORMATION

Gene Name

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

Official Symbol

GIF

Synonyms

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

Gene ID

2694

mRNA Refseq

NM_005142

Protein Refseq

NP_005133

MIM

609342

UniProt ID

P27352

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