

## Human recombinant GIF (Gastric intrinsic factor) protein, AF

Catalog Number: PROTP27352-1

### Overview

|              |   |
|--------------|---|
| Product Name | Human recombinant GIF (Gastric intrinsic factor) protein, AF  |
| Description  | Human Gastric intrinsic factor (GIF) is an intrinsic factor of the eukaryotic cobalamin family. Gastric intrinsic factor is a 44 kDa protein containing 380 amino acid residues. It is secreted from the parietal cells in gastric mucosa. Gastric intrinsic factor plays a major role in absorption and transportation of cobalamin and Cbl. It could form the complex with Vit.B12 that avoid the destroy of Vit.B12. |
| Size         | 5ug,20ug,100ug  |
| Tag          | His Tag (C-term)  |
| Form         | Lyophilized   |
| Source       | Escherichia coli  |
| Formulation  | The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.  |

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 46.23 kDa. The protein migrates as 45 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Testing in process

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### Amino Acid Sequence

MAWFALYLLSLLWATAGTSTQTQSSCSVPSAQEPLVNGIQVLMENSVTSSAYPNPSILIAMNLAGAYNLKAQKLLTYQLMSSDNDLTIGQLGLTIMALT  
SSCRDPGDKVSILQRQMENWAPSSPNAEASAFYGPSLAILALCQKNSATLPIAVRFAKTLANSSPFNVDTGAMATLALTCMYNKIPVGSEEGYRSLFG  
QVLKDIVEKISMKIKDNGIIGDIYSTGLAMQALSVTPEPSKKEWNCKKTTDMILNEIKQGFHNPMISIAQILPSLKGKTYLDVPQVTCSPDHEVQPTLPSN  
PGPGPTSASNITVIYTINNQLRGVELLFNETINVSVKSGSVLLVLEEAAQRKNPMFKFETMTSWGLVVSSINNIENVNHKTYWQFLSGVTPLNEGVADY  
IPFNHEHITANFTQY with polyhistidine tag at the C-terminus.

### Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

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