

# Recombinant human Reg4 protein

Catalog Number: ATGP3854

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

23-158aa

### UniProt No.

Q9BYZ8

### NCBI Accession No.

NP\_114433

### Alternative Names

Regenerating islet-derived protein 4 isoform 1, REG4, GISP, REG-IV, RELP

## PRODUCT SPECIFICATION

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### Molecular Weight

17 kDa (145aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Reg4, also known as regenerating islet-derived protein 4, is a member of the regenerating gene family belonging to the calcium (C-type) dependent lectin superfamily. It is calcium-independent lectin displaying mannose-binding specificity and able to maintain carbohydrate recognition activity in an acidic environment. This protein is involved in inflammatory and metaplastic responses because expression of this protein is increased within or

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near inflammation, dysplasia and metaplasia of the GI epithelium. And this protein is highly expressed in the gastrointestinal tract and markedly up-regulated in colon adenocarcinoma, pancreatic cancer, gastric adenocarcinoma, and inflammatory bowel disease. Recombinant human Reg4 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADP>DIIMRPS CAPGWFYHKS NCYGYFRKLR NWSDAELECQ SYGNGAHLAS ILSLKEASTI AEYISGYQRS QPIWIGLHDP QKRQQWQWID GAMYLRSWS GKSMGGNKHC AEMSSNNNFL TWSSNECNKR QHFLCKYRP<H HHHHH>

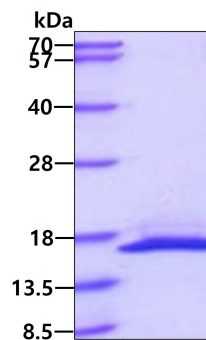
## General References

Kawasaki Y., et al, (2015) Sci Rep. 5:14291.

Jin J., et al, (2017) Med Sci Monit. 23:3715-3721.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain