

Recombinant human Reg4 protein

Catalog Number: ATGP3854

PRODUCT INFORMATION

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

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

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>

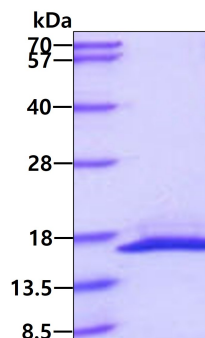
General References

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