

## Recombinant Human REG4 Protein, His-tagged

**Cat. No.** REG4-697H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human REG4 Protein is produced by Baculovirus expression system. This protein is fused with a His tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 23-158 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Reg4, also known regenerating islet-derived protein 4, 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 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. |
| <b>Form</b>             | Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 17.0 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AA Sequence</b>   | ADPDIIMRPS CAPGWFYHKS NCYGYFRKLR NWSDAELECQ SYGNGAHLAS<br>ILSLKEASTI AEYISGYQRS QPIWIGLHDP QKRQQWQWID GAMLYRSWS<br>GKSMGGNKHC AEMSSNNNFL TWSSNECNKR QHFLCKYRPH HHHHH  |
| <b>Endotoxin</b>     | < 1.0 EU per 1 ug of protein (determined by LAL method)                                                                                                               |
| <b>Purity</b>        | > 90 % by SDS - PAGE                                                                                                                                                  |
| <b>Notes</b>         | For research use only. This product is not intended or approved for human, diagnostics or veterinary use.                                                             |
| <b>Storage</b>       | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b> | 0.25 mg/ml (determined by Absorbance at 280 nm)                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | REG4 regenerating islet-derived family, member 4 [ Homo sapiens ]                                                                  |
| <b>Official Symbol</b> | Reg4                                                                                                                               |
| <b>Synonyms</b>        | Regenerating islet-derived protein 4 isoform 1; REG4; GISP; REG-IV; RELP; REG-like protein; regenerating islet-derived protein IV; |
| <b>Gene ID</b>         | 83998                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_001159352                                                                                                                       |
| <b>Protein Refseq</b>  | NP_001152824                                                                                                                       |

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| MIM | 609846 |
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| UniProt ID | Q9BYZ8 |
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