

Recombinant Human REG4, His-tagged

Cat. No. REG4-194H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human regenerating islet-derived family, member 4 (His-tagged) contains 136 amino acids and has a molecular mass of 17.4 kDa. And this protein expressed in *E.Coli*.

Species Human

Source E.coli

Description REG protein was shown to be stimulated during the regeneration of pancreatic islets. Since then, many Reg-related proteins have been identified in humans and other animals. In human, the four REG family genes, i.e., REG 1 alpha, REG 1 beta, REG-related sequence (RS) and HIP/PAP, have so far been isolated. These Reg-related proteins are classified into four subfamilies according to their amino-acid sequences, but they share a similar structure and physiological function. Reg protein is a growth factor for pancreatic beta cells and also suggest that the administration of Reg protein could be used as another therapeutic approach for diabetes mellitus. human REG cDNA which encoded a 166-amino acid protein with a 22-amino acid signal peptide. The amino acid sequence of human REG protein has 68% homology to that of rat Reg protein. Reg I was found to be expressed mainly in pancreatic beta and acinoductular cells as well as gastric fundic enterochromaffin-like (ECL) cells. Reg I production in ECL cells is stimulated by gastrin, as well as by the proinflammatory cytokine, cytokine-induced neutrophil chemoattractant (CINC)-2Beta.

Sequences Of Amino Acids MKHHHHHHAS HMDIIMRPSC APGWFYHKS N CYGYFRKLRN WSDAELECQS

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YGNGAHLASI LSLKEASTIA EYISGYQRSQ PIWIGLHDPQ KRQQWQWIDG
 AMYLYRSWSG KSMGGNKHC AEMSSNNNFLT WSSNECNKRQ HFLCKYRP.

Specificity

The amino acid sequence of the recombinant Human REG IV is 100% homologous to the amino acid sequence of the Human REG IV without signal sequence.

Purification Method

Ni-NTA chromatography.

Purity

>95% (SDS-PAGE analyzed).

Formulation

Sterile filtered and lyophilized from 0.5 mg/ml in 20 mM Tris , pH 8.0.

Reconstitution

Add 0.2 ml of deionized H₂O and let the lyophilized pellet dissolve completely.

Stability/Shelf Life

The lyophilized protein remains stable until the expiry date when stored at -20°C.

Applications

Western blotting, ELISA.

Storage

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

GENE INFORMATION

Gene Name

REG4 regenerating islet-derived family, member 4 [Homo sapiens]

Synonyms

REG4; GISP; REG-IV; RELP; OTTHUMP00000014030; OTTHUMP00000014031;
 Reg IV; REG-like protein; regenerating gene type IV; Gastrointestinal secretory
 protein; regenerating islet-derived family, member 4; Regenerating islet-derived
 family, member 4

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Gene ID	83998
mRNA Refseq	NM_001159352
Protein Refseq	NP_001152824
MIM	609846
UniProt ID	Q9BYZ8
Chromosome Location	1p13.1-p12
Function	binding; sugar binding

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