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32-13380: REG4 Human, Sf9

Alternative Name : Regenerating islet-derived protein 4, Reg IV, REG-like protein, Gastrointestinal secretory protein, REG4, GISP, RELP.

Description

Source: Sf9, Baculovirus cells.
Sterile filtered colorless solution.
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 suggests that the administration of Reg protein could be used as another therapeutic approach for diabetes mellitus. Human REG cDNA which encodes 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.
REG4 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain (23-158 a.a.) and fused to a 9 aa His Tag at C-terminus containing a total of 145 amino acids and having a molecular mass of 17kDa.REG4 shows multiple bands between 13.5-18kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	REG4 protein solution (0.25mg/ml) contains 10% glycerol & Phosphate buffered saline (pH7.4).
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	ADPDIIMRPS CAPGWFYHKS NCYGYFRKLR NWSDAELECQ SYGNGAHLAS ILSLKEASTIAEYISGYQRS QPIWIGLHDP QKRQQWQWID GAMYLYRSWS GKSMGGNKHC AEMSSNNNFL TWSSNECNKR QHFLCKYRPH HHHHH

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