RELM-beta, His Tag, human recombinant (rHuRELM-b-His)

Catalog No: 94987
Lot No: XXXXX
Source: *E. coli*
Synonyms: Resistin-like beta, RELM beta, Cysteine-rich secreted protein FIZZ2, Colon and small intestine-specific cysteine-rich protein, Cysteine-rich secreted protein A12-alpha-like 1, Colon carcinoma-related gene protein, RELM-b, XCP2, HXCP2

Background

RELM-beta (Resistin-Like Molecule-beta) is a member of a recently identified family of secreted proteins containing a conserved cystein-rich C-terminus. The RELM family consists of resistin (also called FIZZ3), RELM-alfa (FIZZ1), RELM-beta (FIZZ2) and RELM-gamma. Only resisistin and RELM-beta were found in humans whereas all four RELM family members were identified in rodents. RELM-beta appears to be produced as a homodimer exclusively by intestinal goblet cells and can be found in high quantities in stool. Remarkably, stool of germ-free mice displaying sterile intestinal tract does not contain RELM-beta until bacterial colonization takes place after pathogen-free mice entered natural environment. Some, but not all, colon carcinoma cell lines secrete RELM-beta into the cell culture supernatant. The physiological function of RELM-beta is not known. High doses of recombinant RELM-beta showed hyperglycemic effects including lowered glucose disposal and increased hepatic glucose production in mice.

Description

RELM-beta human recombinant is a His-tagged fusion protein having a molecular weight of 11 kDa containing 90 amino acid residues of RELM-beta human and 12 additional amino acid residues His Tag.

Formulation

Sterile filtered and lyophilized from 0.5 mg/ml in 0.05 M acetate buffer pH 4.

Solubility

Add 0.2 ml of 0.1 M Acetate buffer pH-4 and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/ml. In higher concentrations the solubility of this antigen is limited.

Stability

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.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino Acid Sequence

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MGSTQCSLDS VMDKKIKDVL NSLEYSPSPI SKKLSCASVK SQGRPSSCPA GMAVTGCACG YGCGSWDVQLETTCHCQCSV
VDWTTARCCH LTKLRSHHHH HH
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Applications

WB

Usage

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