
Product Data Sheet

Product Name: RELM b Human, His

Cat. No.: GP20899

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	MGSTQCSLDS VMDKKIKDVL NSLEYSPSPI SKKLSCASVK SQGRPSSCPA GMAVTGCACG YGCGSWDVQLETTCHCQCSV VDWTARCCH LTKLRSHHHH HH.		
Solubility	Add 0.2 ml of 0.1M 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 μ g/ml. In higher concentrations the solubility of this antigen is limited.		
Formulation	Filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.		

Introduction

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 resistin 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

Caution: Product has not been fully validated for medical applications. For research use only.

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lowered glucose disposal and increased hepatic glucose production in mice.

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 .

Background

RELM-beta Human Recombinant is a His-Tagged Fusion Protein which is 11 kDa protein containing 90 amino acid residues of the RELM-beta human and 12 additional amino acid residues - HisTag (underlined).

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