
Product Data Sheet

Product Name: RELM b Human
 Cat. No.: GP20900
 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	MQCSLDSVMD KIKDVLNSL EYSPSPISKK LSCASVKSQG RPSSCPAGMA VTGCACGYGC GSWDVQLETT CHCQCSVVDW TTARCCHLT.		
Solubility	It is recommended to reconstitute the lyophilized RELM-b in sterile 0.1% TFA not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	RELM-b was lyophilized from a solution containing 0.1% Trifluoroacetic Acid (TFA).		

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 lowered glucose disposal and increased hepatic glucose production in mice.

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

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Stability

Lyophilized RELM-b although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution RELM-b Human Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

RELM-b Human Recombinant produced in E.Coli is a disulfide-linked homodimer, non-glycosylated, polypeptide chain containing 2 x 89 amino acids and having a total molecular mass of 19kDa. RELM-b is purified by proprietary chromatographic techniques.

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