



RELM-beta, mouse recombinant (rmRELM-b)

Catalog No: 97382
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 cysteine-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 pr

Description

RETNLB mouse recombinant produced in *E. coli* is a monomeric, non-glycosylated, polypeptide chain containing 83 amino acids and having a molecular mass of 8.8 kDa. RETNLB is purified by proprietary chromatographic techniques.

Physical Appearance

Brownish lyophilized powder

Formulation

The protein was lyophilized from a concentrated (1 mg/ml) protein solution containing 10 mM acetic acid.

Solubility

Reconstitute at 0.1 mg/ml with sterile pyrogen free water.

Stability

Lyophilized RETNLB is stable at -20°C. After reconstitution the protein should be kept at all times at -20°C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

Purity

Greater than 97% as determined by SDS-PAGE.

Amino Acid Sequence

MQCSFESLVD QRIKEALSRQ EPKTISCTSV TSSGRLASCP AGMVVTGCAC GYGCGSWDIR NGNTCHCQCS VMDWASARCC
RMA

Usage

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CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51