



RELМ-Beta, human recombinant (rhuCCRG)

Catalog No: 99943
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

Resistin-like molecule- β (RELM- β) 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- α (FIZZ1), RELM- β (FIZZ2) and RELM- γ . Only resistin and RELM- β were found in humans, whereas all four RELM family members were identified in rodents. RELM- β 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 a sterile intestinal tract do 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- β into the cell culture supernatant.

Description

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

Physical Appearance

Sterile filtered, white, lyophilized (freeze-dried) powder.

Formulation

RELM-b was lyophilized from a solution containing 10 mM sodium citrate, pH 3.0.

Solubility

It is recommended to reconstitute the lyophilized RELM-b in sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

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.

Purity

Greater than 90% as determined by SDS-PAGE.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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