



Product Datasheet

Product Name	RELM-Beta Human Recombinant
Cata No	CB500356
Source	<i>Escherichia Coli.</i>
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.

Descriptio

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.

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).

MGSTQCCLDS VMDKKIKDVL NSLEYSPSPI
SKKLSCASVK SQGRPSSCPA GMAVTGCACG
YCGGSWDVQLETTCHCQCSV VDWTTCARCCH
LTKLRSHHHH HH

Purity

Greater than 95% as determined by SDS-PAGE.

Formulation

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

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. The lyophilized protein remains stable until the expiry date when stored at -20°C.

Applications

Western blotting

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