Recombinant Human resistin like beta, His-tagged

Cat. No. RETNLB-123H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RELM-beta 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 –His Tag (underlined).
Species	Human
Source	E.coli
Description	RELM-beta (Resistin-Like Molecule-beta) is a member of a recently identified family of secreted proteins containing a conserved cystein-rich C-terminus. 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. High doses of recombinant RELM-beta showed hyperglycemic effects including lowered glucose disposal and increased hepatic glucose production in mice.
Amino acid sequence	MGSTQCSLDS VMDKKIKDVL NSLEYSPSPI SKKLSCASVK SQGRPSSCPA GMAVTGCACG YGCGSWDVQLETTCHCQCSV VDWTTARCCH LTKLRSHHHH HH.
Specificity	The amino acid sequence of the RELM-beta human recombinant is 100% homologous to the amino acid sequence of the RELM-beta human without signal sequence.
Purification Method	Three-step procedure using affinity Ni-NTA chromatography and size

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	exclusionchromatography before and after refolding.
Purity	>95% (SDS-PAGE analyzed).
Formulation	Sterile filtered and lyophilized from 0.5 mg/ml in 0.05 M Acetate buffer pH-4.
Reconstitution	Add 0.2 ml of 0.1 M 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 10µg/ml. In higher concentrations the solubility of this antigen is limited.
Stability/Shelf Life	The lyophilized protein remains stable until the expiry date when stored at -20°C.
Applications	Western blotting.
Storage	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.

GENE INFORMATION

Gene Name	RETNLB resistin like beta [Homo sapiens]
Synonyms	RETNLB; resistin like beta; XCP2; FIZZ1; FIZZ2; HXCP2; RELMb; RELMbeta; RELM-beta; found in inflammatory zone 1; cysteine-rich secreted A12-alpha-like protein 1; colon and small intestine-specific cysteine-rich protein; C/EBP-epsilon regulated myeloid-specific secreted cysteine-rich protein precursor 2; CCRG; RETNL2
Gene ID	84666
mRNA Refseq	NM_032579

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Protein Refseq	NP_115968
MIM	605645
UniProt ID	Q9BQ08
Chromosome Location	3q13.1
Function	hormone activity; molecular_function

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