

Recombinant Mouse resistin like gamma, His-tagged

Cat. No. Retnlg-122M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse RELM-gamma is a His-Tagged Fusion Protein having a molecular weight of 11 kDa containing 86 amino acid residues of the RELM-gamma Mouse and 16 additional amino acid residues–HisTag.
Species	Mouse
Source	E.coli
Description	RELM-gamma is a novel member of the resistin-like molecule/found in inflammatory zone (RELM/FIZZ) family in mice and rats. Microarray and real-time RT-PCR experiments revealed a repression of RELMgamma mRNA in nasal respiratory epithelium of cigarette smoke-exposed versus untreated rats. The analysis of the physiological tissue-specific expression revealed highest expression in hematopoietic tissues, suggesting a cytokine-like role for RELM-gamma. RELM-gamma-mRNA is detectable in bone marrow, spleen, and lung as well as in peripheral blood granulocytes. Promyelocytic HL60 cells transfected with a RELM-gamma expression plasmid have an increased proliferation rate compared to mock-transfected cells and display an altered response to retinoic acid-induced granulocytic differentiation. Taken together, these data provide the first experimental evidence that RELM-gamma is a secreted molecule with a restricted expression pattern that may play a role in promyelocytic differentiation.
Amino acid sequence	MRGSHHHHHH GMASHMTLES IVEKKVKELL ANRDDCPSTV TKTFSCSTSIT ASGRLASCPS GMTVTGCACG YGCGSWDIRD GNTCHCQCST MDWATARCCQ

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Specificity	The amino acid sequence of the recombinant Mouse RELM is 100% homologous to the amino acid sequence of the RELM-Mouse.
Purification Method	Two-step procedure using size exclusion chromatography before and after refolding.
Purity	>95% (SDS-PAGE analyzed).
Formulation	Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.
Applications	Western blotting, ELISA
Solubility	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 10 µg/ml. In higher concentrations the solubility of this antigen is limited.
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.

GENE INFORMATION

Gene Name	Retnlg resistin like gamma [Mus musculus]
Synonyms	Retnlg; resistin like gamma; Xcp1; Fizz3; Relmg; resistin-like gamma; RELMgamma; resistin-like molecule gamma; ADSF; HXCP1; MGC126603; MGC126609; RETN1; RSTN; resistin

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Gene ID	245195
mRNA Refseq	NM_181596
Protein Refseq	NP_853627
UniProt ID	Q7TM98
Chromosome Location	16 B5; 16 32.5 cM
Function	molecular_function

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