
Product Data Sheet

Product Name: RELM g Mouse, His
 Cat. No.: GP20903
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Resistin-like gamma; RELMgamma;RELM-γ; RELM-g.		
Amino Acid Sequence	MRGSHHHHHH GMASHMTLES IVEKKVKELL ANRDDCPSTV TKTFSCSIT ASGRLASCPS GMTVTGCACG YGCGSWDIRD GNTCHCQCST MDWATARCCQ LA.		
Solubility	It is recommended to add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/ml 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. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Filtered (0.4μm) and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.		

Introduction

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

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experimental evidence that RELM-gamma is a secreted molecule with a restricted expression pattern that may play a role in promyelocytic differentiation.

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 .

Background

RELM-gamma Mouse Recombinant 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 (underlined).

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