
Product Data Sheet

Product Name: RELM g Mouse
 Cat. No.: GP20902
 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	MEGTLESIVE KVKELLANR DDCPSTVTKT FSCTSITASG RLASCPSGMT VTGCACGYGC GSWDIRDGNT CHCQCSTMDW ATARCCQLA.		
Solubility	It is recommended to reconstitute the lyophilized RELM g in sterile 18MΩ-cm H ₂ O at a concentration of 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a sterile filtered solution containing 0.1 % trifluoroacetic acid (TFA).		

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

Stability

Lyophilized RELM g although stable at room temperature for 3 weeks, should be stored

Caution: Product has not been fully validated for medical applications. For research use only.

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desiccated below -18°C . Upon reconstitution RELM g Mouse 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.

Background

RELM g Mouse Recombinant produced in E.Coli is a non glycosylated, homodimeric polypeptide chain containing 2 x 89 amino acids and having a total molecular mass of 18.9kDa. The RELM is purified by proprietary chromatographic techniques.

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