



# Recombinant Mouse RELM alpha

20161215BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>M10-081</b>
Size:	25 µg
Lot. No.:	According to product label

### Sequence

MDETIEIIVE NKVKELLANP ANYPSTVTKT LSCTSVKTMN  
RWASCPAGMT ATGCACGFAC GSWEIQSGDT CNCLCLLDVW  
TTARCCQLS

### Database References

<b>Protein RefSeq:</b>	NP_065255.2
<b>Uniprot ID:</b>	Q9EP95
<b>mRNA RefSeq:</b>	NM_020509

## Scientific Background

<b>Gene-ID (NCBI):</b>	57262
<b>Synonyms:</b>	Retnla; HIMF; Xcp2; Fizz1; RELM $\alpha$ ; Fizz-1; RELMalpha; RELM-alpha; 1810019L16Rik

RELM $\alpha$  belongs to a unique family of tissue-specific cytokines termed FIZZ (found in inflammatory zone) and RELM. The three known members of this family; Resistin, RELM $\alpha$  and RELM $\beta$  are 85-94 amino acid secreted proteins sharing a conserved C-terminal domain characterized by 10 cysteine residues with a unique spacing motif of C-X11-C-X8-C-X-C-X3-C-X10-C-X-C-X-C-X9-C-C. RELM $\alpha$  and Resistin are secreted exclusively by adipocytes while RELM $\beta$  is expressed in the epithelium of the colon and small bowel. The physiological role and molecular targets of RELM $\alpha$  are still unknown. Recombinant murine RELM $\alpha$  is a 10.0 kDa monomeric protein containing 88 amino acid residues.

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Structural Information</b>	monomeric
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	88
<b>MW:</b>	10 kDa

**Stability:** The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

**Reconstitution:** Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

**Biological Activity:** Data not available.