

RELM-alpha Recombinant Protein | mRELM a recombinant protein

Recombinant Mouse RELM-alpha

CATALOG #
AAA38154

HOST
E Coli

PRODUCT SYNONYMS

RELM-alpha; Recombinant Mouse RELM-alpha; RELM a Mouse; RELM-alpha Mouse Recombinant; Resistin-like alpha; RELMalpha; Cysteine-rich secreted protein FIZZ1; Parasite-induced macrophage novel gene 1 protein; Cysteine-rich secreted protein A12-gamma; RELM-a; mRELM a recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98% as determined by SDS-PAGE & RP-HPLC.
Form/Format	Sterile filtered and lyophilized from 0.5mg/ml in 10mM sodium phosphate buffer, pH 7.5. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MDETIEIIVE NKVKELLANP ANYPSTVTKT LSCTSVKTMN RWASCPAGMT ATGCACGFAC GSWEIQSGDT CNCLCLLDVW TTARCCQLS
Sequence Length	138
Solubility	At 0.1mg/ml of deionized sterile water.
Preparation and Storage	Store lyophilized protein at -20 degree C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 degree C for a limited period of time; it does not show any change after two weeks at 4 degree C.

ADDITIONAL INFORMATION

Related Product Information for mRELM a recombinant protein	Description: Mouse RELM-alpha Recombinant produced in E Coli is a monomeric, non-glycosylated, polypeptide chain containing 88 amino acids and having a molecular mass of 10 kDa. The Mouse RELM-alpha is purified by proprietary chromatographic techniques. Introduction: Bronchoalveolar lavage fluid from mice with experimentally induced allergic pulmonary inflammation contains a novel 9.4 kDa cysteine-rich secreted protein, RELM-alpha (FIZZ1, found in inflammatory zone). RELM-alpha is a secreted protein that has a restricted tissue distribution with highest levels in adipose tissue stroma. Murine RELM-alpha (FIZZ1) is the founding member of a new gene family including two other murine genes expressed, respectively, in intestinal crypt epithelium (RELM-beta) and white adipose tissue (Resistin), and two related human genes. RELMalpha inhibits the differentiation of 3T3-L1 preadipocytes into adipocytes but has no effect on proliferation of 3T3-L1 preadipocytes. RELMalpha is able to form heterooligomers with resistin but not RELMbeta. Since RELMalpha is expressed by adipose tissue and it is a secreted factor, our findings suggest that RELMalpha may be involved in the control of the adipogenesis as well as in the process of muscle differentiation. In the lung, RELM-alpha is induced by hypoxia and was renamed as hypoxia-induced mitogenic factor (HIMF). HIMF strongly activated Akt phosphorylation. The phosphatidylinositol 3-kinase (PI3K) inhibitor LY294002 (10 micromol/L) inhibited HIMF-activated Akt phosphorylation. It also inhibited HIMF stimulated RPSM proliferation. Thus, the PI3K/Akt pathway, at least in part, mediates the proliferative effect of HIMF. Further studies showed that HIMF had angiogenic and vasoconstrictive properties. HIMF increased pulmonary arterial pressure and vascular resistance. Further studies suggest that HIMF regulates apoptosis and may participate in lung alveolarization and maturation.
Product Categories/Family for mRELM a recombinant protein	Cytokines and Growth Factors; Cytokines; Resistin

NCBI AND UNIPROT INFORMATION

NCBI GI #	103472022
NCBI GeneID	57262
NCBI Accession #	NP_065255.2
NCBI GenBank Nucleotide #	NM_020509.3
UniProt Accession #	Q9EP95; Q9D8Y4
Molecular Weight	11,936 Da
NCBI Official Full Name	resistin-like alpha
NCBI Official Synonym Full Names	resistin like alpha
NCBI Official Symbol	Retnla
NCBI Official Synonym Symbols	HIMF; Xcp2; Fizz1; RELMa; Fizz-1; RELMalpha; RELM-alpha; 1810019L16Rik
NCBI Protein Information	resistin-like alpha; cysteine-rich secreted protein A12-gamma; cysteine-rich secreted protein FIZZ1; found in inflammatory zone 1; hypoxia-induced mitogenic factor; parasite-induced macrophage novel gene 1 protein
UniProt Protein Name	Resistin-like alpha
UniProt Gene Name	Retnla
UniProt Synonym Gene Names	Fizz1; Himf; Pmng1
UniProt Entry Name	RETNA_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/retnla-recombinant-protein-e-coli/38154>