Recombinant Mouse Resistin, Flag-tagged

Cat. No. Retn-68M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Resistin is manufactured with signal sequence of phage fd (21aa) and C-terminal fusion of flagTag (10aa). Resistin Mouse Recombinant Flag-Tagged Fusion Protein is 13.7 kDa protein containing 93 amino acid residues of the Resistin Mouse and 31 additional amino acid residues - signal sequence of phage fd, flagTag (underlined). MKKLLFAIPL VVPFYSHSTM ASMPLCPIDE AIDKKIKQDF NSLFPNAIKN IGLNCWTVSS RGKLASCPEG TAVLSCSCGS ACGSWDIREE KVCHCQCARI DWTAARCCKL QVASLEDYKD DDDK.
Species	Mouse
Source	E.coli
Description	Mouse resistin, specifically produced and secreted by adipocyte, acts on skeletal muscle myocytes, hepatocytes and adipocytes themselves so that it reduces their sensitivity to insulin. Steppan et al. have suggested that resistin suppresses the ability of insulin to stimulate glucose uptake. They have also suggested that resistin is present at elevated levels in blood of obese mice, and is down regulated by fasting and antidiabetic drugs. Way et al., on the other hand, have found that resistin expression is severly suppressed in obesity and is stimulated by several antidiabetic drugs. Other studies have shown that mouse resistin increases during the differentiation of adipocytes, but it also seems to inhibit adipogenesis. In contrast, the human adipogenic differentiation is likely to be associated with a down regulation of resistin gene expression.

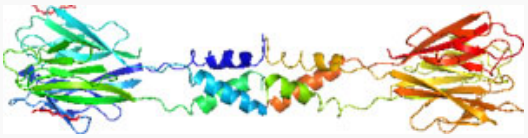
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Specificity	The amino acid sequence of the Recombinant Mouse Resistin is 100% homologous to the amino acid sequence of the Resistin Mouse.
Purification Method	Two-step procedure using size exclusion chromatography before and after refolding.
Purity	>95% (SDS-PAGE analyzed).
Formulation	Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.
Solubility	Add 0.2 ml of 0.1 M Acetate buffer pH4 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.
Applications	Western blotting, ELISA.
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.

GENE INFORMATION

Gene Name	Retn resistin [Mus musculus]
Synonyms	Retn; resistin; ADSF; Rstn; Xcp4; Fizz3; found in inflammatory zone 3; adipocyte-specific secretory factor;rstn
Gene ID	57264
mRNA Refseq	NM_022984

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Protein Refseq	NP_075360
UniProt ID	Q99P87
Chromosome Location	8 A1; 8 0.37 cM
Function	hormone activity
Crystallographic structure of a hexamer of mouse resistin (rainbow colored, N-terminus = blue, C-terminus = red).	

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