

## 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 ASMP LCPIDE AIDKKIKQDF NSLFPNAIKN IGLNCWTVSS RGKLASCPEG TAVLSCSCGS ACGSWDIREE KVCHCQCARI DWTAARCKL 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. Stepan 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 severely 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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<b>Specificity</b>	The amino acid sequence of the Recombinant Mouse Resistin is 100% homologous to the amino acid sequence of the Resistin Mouse.
<b>Purification Method</b>	Two-step procedure using size exclusion chromatography before and after refolding.
<b>Purity</b>	>95% (SDS-PAGE analyzed).
<b>Formulation</b>	Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.
<b>Solubility</b>	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.
<b>Applications</b>	Western blotting, ELISA.
<b>Stability</b>	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

<b>Gene Name</b>	<a href="#">Retn resistin [ Mus musculus ]</a>
<b>Synonyms</b>	Retn; resistin; ADSF; Rstn; Xcp4; Fizz3; found in inflammatory zone 3; adipocyte-specific secretory factor;rstn
<b>Gene ID</b>	<a href="#">57264</a>
<b>mRNA Refseq</b>	<a href="#">NM_022984</a>

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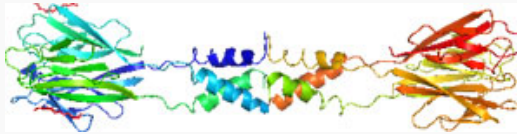
**Protein Refseq** NP\_075360

**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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