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## Product Data Sheet

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Product Name: Resistin Mouse, His  
 Cat. No.: GP20909  
 Batch No.: 1

### Product Data

|                     |  |                    |                       |
|---------------------|--|--------------------|-----------------------|
| Purity              | >98%   | Source             | Escherichia Coli.     |
| Physical Appearance | solid  | Shipping Condition | Shipped at Room temp. |
| Synonyms            | Cysteine-rich secreted protein FIZZ3; Adipose tissue-specific secretory factor; ADSF; C/EBP-epsilon-regulated myeloid-specific secreted cysteine-rich protein; Cysteine-rich secreted protein A12-alpha-like 2; RSTN; XCP1; RETN1; MGC126603; MGC126609.   |                    |                       |
| Amino Acid Sequence | MKKLLFAIPL VVPFYSHSTM ASMPLCPIDE AIDKKIKQDF NSLFPNAIKN IGLNCWTVSS RGKLASCPEG TAVLSCSCGS ACGSWDIREE KVCHCQCARI DWTAARCKL QVASLEDYKD DDDK.   |                    |                       |
| Solubility          | It is recommended to add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/ml. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture. |                    |                       |
| Formulation         | Filtered (0.4µm) and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.  |                    |                       |

### Introduction

Resistin, a product of the RSTN gene, is a peptide hormone belonging to the class of cysteine-rich secreted proteins which is termed the RELM family, and is also described as ADSF (Adipose Tissue- Specific Secretory Factor) and FIZZ3 (Found in Inflammatory Zone). Human resistin contains 108 amino acids as a prepeptide, and its hydrophobic signal peptide is cleaved before its secretion. Resistin circulates in human blood as a dimeric protein consisting of two 92 amino acid polypeptides, which are disulfide-linked via Cys26. Resistin may be an important link between obesity resistance. Mouse resistin,

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

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specifically produced and secreted by adipocyte, acts on skeletal muscle myocytes, hepatocytes and adipocytes themselves so that it reduces their sensitivity. 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.

### 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 .

### Background

Resistin Mouse 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).

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