



## Product Datasheet

<b>Product Name</b>	Resistin Mouse Recombinant
<b>Cata No</b>	CB500359
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	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.

### Description

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 and insulin resistance. 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 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.

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).

**MKLLFAIPL VVPFYSHSTM** ASMP LCPIDE  
AIDKKIKQDF NSLFPNAIKN IGLNCWTVSS  
RGKLASCPEG TAVLSCSCGS ACGSWDIREE  
KVCHCQCARI DWTAARCKKL QVA**SLEDYKD**  
**DDDK**

### Purity

Greater than 95% as determined by SDS-PAGE.

### Formulation

Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH-4.

### 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.

**\* For Non-Clinical Research Use Only \***



# California Bioscience

83103 Avenue 48, Ste.1B #204  
Coachella, CA 92236 USA  
Phone : +1.6268339877  
Email : [info@cali-bio.com](mailto:info@cali-bio.com)

The lyophilized protein remains stable until the expiry date when stored.

Western blotting, ELISA **Product Datasheet**

## Applications

**\* For Non-Clinical Research Use Only \***