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## Product Data Sheet

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Product Name: Resistin Human, His  
 Cat. No.: GP20906  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Formulation	Resistin protein solution is supplied in 20mM Tris-HCl pH 8.0, 5mM EDTA and 50% glycerol.		

### 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 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. 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.

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

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

### Background

Resistin Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing a 92 amino acids fragment (17-108) of the mature Human Resistin, having a total molecular mass of 14.23kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The Resistin is purified by proprietary chromatographic techniques.

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