

## Resistin Protein, Human, Recombinant (His)

### General Information

Synonyms:	Resistin;C/EBP-epsilon-regulated myeloid-specific secreted cysteine-rich protein;RSTN;Cysteine-rich secreted protein A12- $\alpha$ -like 2;RETN;FIZZ3;HXCP1;C/EBP- $\epsilon$ -regulated myeloid-specific secreted cysteine-rich protein;Cysteine-rich secreted protein FIZZ3;Adipose tissue-specific secretory factor;Cysteine-rich secreted protein A12-alpha-like 2
Protein Construction:	Lys19-Pro108
Species:	Human
Expression Host:	E. coli
Accession:	Q9HD89
Molecular Weight:	10-14 KDa (reducing condition)
AA Sequence:	Lys19-Pro108

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing 20 mM HAc, pH 3.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Resistin known as adipose tissue-specific secretory factor (ADSF) or C/EBP-epsilon-regulated myeloid-specific secreted cysteine-rich protein (XCP1) that seems to suppress insulin ability to stimulate glucose uptake into adipose cells. The length of the resistin pre-peptide in human is 108 amino acid residues and in the mouse and rat

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it is 114 aa; the molecular weight is ~12.5 kDa. Resistin is a cytokine whose physiologic role has been the subject of much controversy regarding its involvement with obesity and type II diabetes mellitus (T2DM). Resistin has been shown to cause "high levels of 'bad' cholesterol (low-density lipoprotein or LDL), increasing the risk of heart disease, resistin increases the production of LDL in human liver cells and also degrades LDL receptors in the liver. Potentially links obesity to diabetes.

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