

# Recombinant Human Adiponectin/Acrp30/ADIPOQ Protein

Catalog No.: RP01461 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	9370	Q15848

### Tags

C-His

### Synonyms

ADIPOQ;ACDC;ACRP30;ADIPQTL1;ADPN;APM-1;APM1;GBP28;Adiponectin

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

<0.1EU/ $\mu$ g

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Adiponectin (ADIPOQ), or 30 kDa adipocyte complement-related protein (Acrp30) is a protein secreted by adipose tissue, which acts to reduce insulin resistance and atherogenic damage, but it also exerts actions in other tissues. Adiponectin mediates its actions in the periphery mainly via two receptors, AdipoR1 and AdipoR2. Adiponectin influences gonadotropin release, normal pregnancy, and assisted reproduction outcomes. Adiponectin, a beneficial adipokine, represents a major link between obesity and reproduction. Higher levels of adiponectin are associated with improved menstrual function and better outcomes in assisted reproductive cycles. Unlike other adipocytokines produced by adipose tissue, adiponectin appears to have anti-inflammatory, anti-diabetic, and anti-atherogenic properties. Several clinical studies demonstrate the inverse relationship between plasma adiponectin levels and several inflammatory markers including C-reactive protein. Adiponectin attenuates inflammatory responses to multiple stimuli by modulating signaling pathways in a variety of cell types. The anti-inflammatory properties of adiponectin may be a major component of its beneficial effects on cardiovascular and metabolic disorders including atherosclerosis and insulin resistance. Additionally, it is important factor in chronic liver diseases and chronic kidney diseases. Some cancer cell types express adiponectin receptors. Thus Adiponectin may act on tumour cells directly by binding and activating adiponectin receptors and downstream signalling pathways.

## Basic Information

### Description

Recombinant Human Adiponectin/Acrp30/ADIPOQ Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu19-Asn244) of human Adiponectin/Acrp30 (Accession #NP\_001171271.1) fused with a 6 $\times$ His tag at the C-terminus.

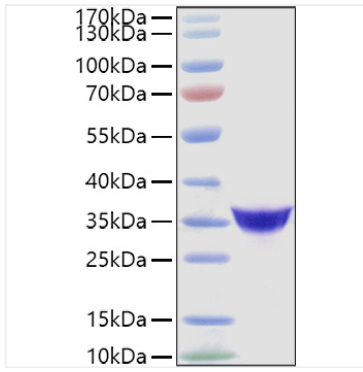
### Bio-Activity

### Storage

Store at -20 $^{\circ}$ C. Store the lyophilized protein at -20 $^{\circ}$ C to -80 $^{\circ}$ C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human Adiponectin/Acrp30/ADIPOQ Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 30-38kDa.