

# Active Recombinant Human Adiponectin, C1Q And Collagen Domain Containing

**Cat. No.** ADIPOQ-4956H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human ADIPOQ protein was expressed in Hi-5 Insect cells and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	Adiponectin is an adipose-derived secreted protein containing 226 amino acid residues. It is relatively abundant in humans and rodents, accounting for about 0.01% of total plasma protein. The circulating levels of adiponectin are decreased under conditions of obesity, insulin resistance, and type II diabetes. Disruption of adiponectin in mice causes insulin resistance and neointimal formation. Conversely, administration of recombinant adiponectin suppresses hepatic glucose production, and reverses insulin resistance associated with both lipotrophy and obesity.
<b>Form</b>	Lyophilized from 20mM tris, pH 8.5, with 250mM L-arginine. Reconstitute in water to a concentration of 1.0 mg/ml.
<b>Purity</b>	>97% pure by SDS PAGE and HPLC
<b>Sequence</b>	1-248 amino acids: MERASLIQKA KLAEQAERYE DMAAFMKGAV EKGEELSCEE RNLLSVAYKN VVGGQRAAWR VLSSIEQKSN EEGSEEKGPE VREYREKVVET ELQGVCDTVL GLLDSHLIKE AGDAESRVFY LKMKGDYYRY LAEVATGDDK KRIIDSARSA YQEAMDISKK EMPPTNPIRL GLALNFSVFH YEIANSPEEA

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ISLAKTTFDE AMADLHTLSE DSYKD

**Applications**

Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions

**Endotoxin Levels**

Endotoxin level is less than 0.1 ng per ug (1 EU/ug).

**Bioactivity**

Determined by a cytotoxic assay using M1 cells. The ED50 for this effect is 3.0-6.0 ug/ml.

**Storage**

Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

**GENE INFORMATION**

**Gene Name**

[ADIPOQ adiponectin, C1Q and collagen domain containing \[ Homo sapiens \]](#)

**Official Symbol**

ADIPOQ

**Synonyms**

ADIPOQ; adiponectin, C1Q and collagen domain containing; ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1; adiponectin; AdipoQ; apM1; adipose most abundant gene transcript 1; Adiponectin; Adipocyte, C1q and collagen domain-containing protein; 30 kDa adipocyte complement-related protein; Adipocyte complement-related 30 kDa protein; Adipose most abundant gene transcript 1 protein; apM-1; Gelatin-binding protein

**Gene ID**

[9370](#)

**mRNA Refseq**

[NM\\_004797](#)

**Protein Refseq**

[NP\\_004788](#)

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<b>MIM</b>	605441
<b>UniProt ID</b>	Q15848
<b>Chromosome Location</b>	3q27
<b>Pathway</b>	Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes melitus
<b>Function</b>	cytokine activity; eukaryotic cell surface binding; hormone activity; protein homodimerization activity
<b>PDBrendering based on 1c28.</b>	

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