

# Active Recombinant Human Adiponectin, C1Q And Collagen Domain Containing

Cat. No. ADIPOQ-490H Lot. No. (See product label)

## SPECIFICATION

|                            |   |
|----------------------------|---|
| <b>Product Overview</b>    | Recombinant Human adiponectin, C1Q and collagen domain containing encoding the human Adiponectin protein sequence (containing the signal peptide sequence, and the mature Adiponectin sequence) was expressed in modified <i>human 293 cells</i> .            |
| <b>Species</b>             | Human   |
| <b>Source</b>              | HEK293  |
| <b>Description</b>         | Adiponectin is a member of the 'adipocytokines' that are cytokines that are expressed from adipose tissues. Its general functions include regulation of energy homeostasis, hematopoiesis, inflammation and immunity.   |
| <b>Amino Acid Sequence</b> | ETTTQGGPVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDGPGEKGEKGD<br>LIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGL<br>ETYVTIPNMP<br>IRFTKIFYNQNHYDYGSTGKFHCNIPGLYYFAYHITVYMKDVKVSLFKKDK<br>AMLFTYD<br>QYQENNVDAQSGSVLLHLEVG DQVWLQVYGEGERNGLYADNDNDSTFTG<br>FLLYHD<br>TN. |
| <b>Molecular Mass</b>      | Adiponectin migrates as a broad band between 25 and 35 kDa in SDS-PAGE due to post-translational modifications, in particular glycosylation.  |
| <b>pI</b>                  | Adiponectin separates into a number of glycoforms with an observed pI between 4.5 and 8.0 on 2D PAGE due to post-translational modifications, in particular glycosylation.  |

 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

|                       |   |
|-----------------------|---|
| <b>% Carbohydrate</b> | Purified Adiponectin consists of 0 to 30% carbohydrate by weight.   |
| <b>Glycosylation</b>  | Adiponectin contains O-linked oligosaccharides.   |
| <b>Purity</b>         | >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.   |
| <b>Formulation</b>    | When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.   |
| <b>Reconstitution</b> | It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.  |
| <b>Storage</b>        | Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not recommended. |
| <b>Activity</b>       | The ED50 of adiponectinB is typically 3-5 ug/ml as measured by its ability to inhibit M1 cell proliferation.  |

## GENE INFORMATION

|                       |  |
|-----------------------|--|
| <b>Gene Name</b>      | <a href="#">ADIPOQ adiponectin, C1Q and collagen domain containing [ Homo sapiens ]</a>                                      |
| <b>Synonyms</b>       | ADIPOQ; adiponectin, C1Q and collagen domain containing; ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1; adiponectin; APM1 |
| <b>Gene ID</b>        | <a href="#">9370</a>   |
| <b>mRNA Refseq</b>    | <a href="#">NM_004797</a>  |
| <b>Protein Refseq</b> | <a href="#">NP_004788</a>  |

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**UniProt ID** [Q15848](#)

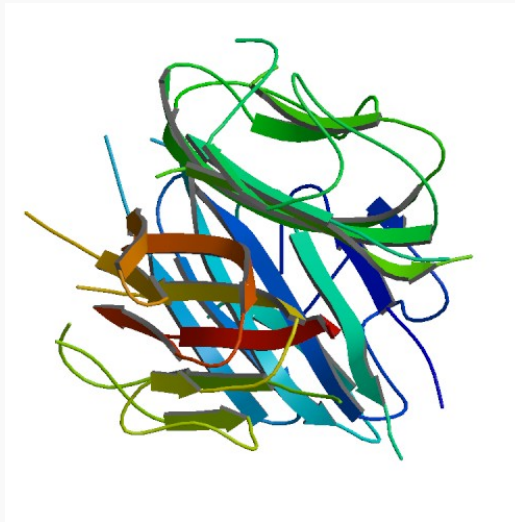
**Chromosome  
Location** 3q27

**MIM** [605441](#)

**Pathway** Adipocytokine signaling pathway; PPAR signaling pathway; ligand-receptor interaction; Type II diabetes mellitus

**Function** cytokine activity; eukaryotic cell surface binding; growth factor activity; protein homodimerization activity

**PDB rendering based  
on 1c28.**



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