

## Recombinant Human ADIPOQ, Flag-tagged

Cat. No. ADIPOQ-45H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ADIPOQ fused with C-terminal flag tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded protein circulates in the plasma and is involved with metabolic and hormonal processes. Mutations in this gene are associated with adiponectin deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified.
<b>Purity</b>	>98%
<b>Amino Acid Sequence</b>	ETTTQGGPVL LPLPKGACTG WMAGIPGHPG HNGAPGRDGR DGTPGEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ GRKGEPGEGA YVYRSAFSVG LETYVTIPNM PIRFTKIFYN QQNHYDGSTG KFHCNIPGLY YFAYHITVYM KDVKVSFLFKK DKAMLFTYDQ YQENNVDQAS GSVLLHLEVG DQVWLQVYGE GERNGLYADN DNDSTFTGFL LYHDTNDYKD DDDK
<b>Biological Activity</b>	In vitro gluconeogenesis assay in primary hepatocytes was performed, showing the human adiponectin derived from mammalian cells can inhibit glucose production. The ED50 was ~6 g/ml.

 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>Endotoxin</b>	< 1.0 EU/ug
<b>Formulation</b>	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.05 M phosphate buffer, 0.075 M NaCl, pH 7.4
<b>Reconstitution</b>	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
<b>Storage</b>	Store lyophilized protein at –20°C. Lyophilized protein remains stable until the expiry date when stored at –20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.
<b>Applications</b>	Cell culture and/or animal studies; ELISA; Western blotting
<b>Note</b>	This product is intended for research use only.
<b>OfficialSymbol</b>	ADIPOQ

## GENE INFORMATION

<b>Gene Name</b>	ADIPOQ adiponectin, C1Q and collagen domain containing [ Homo sapiens ]
<b>Synonyms</b>	ADIPOQ; adiponectin, C1Q and collagen domain containing; ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1; adiponectin; gelatin-binding protein 28; adipose specific collagen-like factor; 30 kDa adipocyte complement-related protein; adipocyte complement-related 30 kDa protein; adipose most abundant gene transcript 1 protein

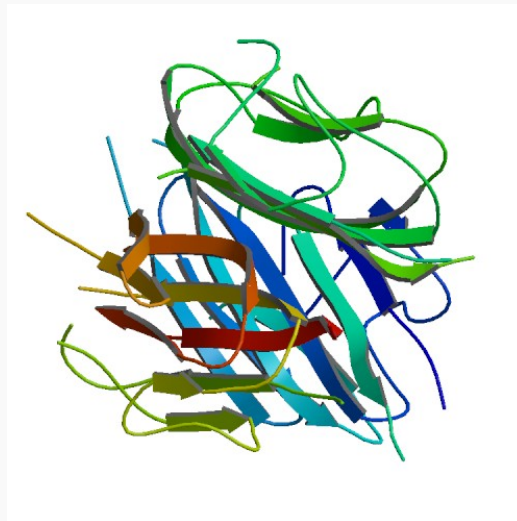
 Tel: 1-631-559-9269 1-516-512-3133

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

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

<b>Gene ID</b>	9370
<b>mRNA Refseq</b>	NM_004797
<b>Protein Refseq</b>	NP_004788
<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 mellitus
<b>Function</b>	cytokine activity; eukaryotic cell surface binding; hormone activity; protein homodimerization activity

**PDB rendering based on 1c28.**



 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