

# Recombinant Mouse Adiponectin, C1Q and Collagen Domain Containing, His-tagged

**Cat. No.** Adipoq-47M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant mouse adiponectin, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques (251 aa, 27.2 kDa).
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Adiponectin is an adipocyte specific secreted protein that circulates in the plasma. It is induced during adipocyte differentiation and its secretion is stimulated by insulin. Mouse adiponectin shares about 83% amino acid identity with that human. Adiponectin plays a role in various physiological processes such as energy homeostasis and obesity. Adiponectin is reduced in obese humans, and decreased level is associated with insulin resistance and hyperinsulinemia.
<b>Formulation</b>	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol.
<b>Molecular Weight</b>	27.2 kDa (251 aa).
<b>Purity</b>	> 90% by SDS – PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Amino acid</b>	MGSSHHHHHH SSGLVPRGSH MEDDVTTTEE LAPALVPPPK GTCAGWMAGI

 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>Sequence</b>	PGHPGHNGTP GRDGRDGTPG EKGEKGDAGL LGPKGETGDV GMTGAEGPRG FPGTPGRKGE PGEAAYVYRS AFSVGLETRV TVPNVPIRFT KIFYNQQNHY DGSTGKFYCN IPGLYYFSYH ITVYMKDVKV SLFKKDKAVL FTYDQYQEK VDQASGSVLL HLEVGDQVWL QVYGDGDHNG LYADNVNDST FTGFLLYHDT N
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

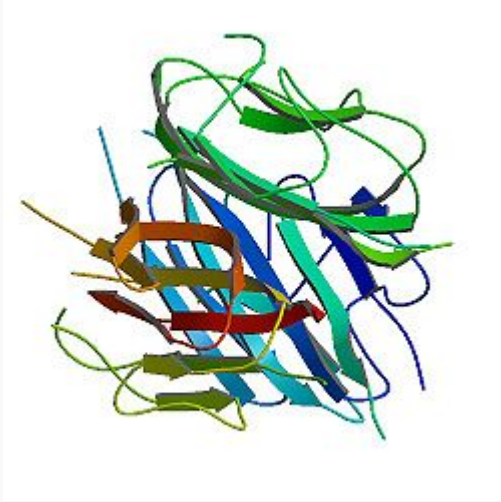
## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Adipoq adiponectin, C1Q and collagen domain containing [ Mus musculus ]</a>
<b>Synonyms</b>	Acrp30; AdipoQ; GBP-28; APM-1; ACDC; ACRP30; ADPN; APM-1; APM1; AdipoQ; GBP28; adiponectin; apM-1; apM1; 30 kDa adipocyte complement-related protein; Adipocyte complement-related 30 kDa protein; Adipocyte, C1q and collagen domain-containing protein; Adipose most abundant gene transcript 1 protein; Gelatin-binding protein; adipocyte, C1Q and collagen domain containing; adipocyte, C1Q and collagen domain-containing; adiponectin, C1Q and collagen domain containing; adipose most abundant gene transcript 1; gelatin-binding protein 28; ADIPOQ; ADIPQTL1.
<b>Gene ID</b>	<a href="#">11450</a>
<b>mRNA Refseq</b>	<a href="#">NM_009605</a>
<b>Protein Refseq</b>	<a href="#">NP_033735</a>
<b>UniProt ID</b>	<a href="#">Q6GTX4</a>
<b>Chromosome Location</b>	16 16.0 cM

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<b>Pathway</b>	Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes mellitus.
<b>Function</b>	hormone activity; hormone activity; protein binding; receptor binding.
<b>PDBrendering based on 1c28. Available structures: 1c28, 1c3h.</b>	

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