

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

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

SPECIFICATION

Product Overview	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).
Species	Mouse
Source	E.coli
Description	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.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol.
Molecular Weight	27.2 kDa (251 aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Amino acid	MGSSHHHHHH SSGLVPRGSH MEDDVTTEE LAPALVPPPK GTCAGWMAGI

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Sequence	PGHPGHNGTP GRDGRDGTPG EKGEKGDAGL LGPKGETGDV GMTGAEGPRG FPGTPGRKGE PGEAAYVYRS AFSVGLETRV TVPNVPIRFT KIFYNQQNHY DGSTGKFYCN IPGLYYFSYH ITVYMKDVKV SLFKKDKAVL FTYDQYQEK VDQASGSVLL HLEVGDQVWL QVYGDGDHNG LYADNVNDST FTGFLLYHDT N
Storage	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

Gene Name	Adipoq adiponectin, C1Q and collagen domain containing [<i>Mus musculus</i>]
Synonyms	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.
Gene ID	11450
mRNA Refseq	NM_009605
Protein Refseq	NP_033735
UniProt ID	Q6GTX4
Chromosome Location	16 16.0 cM

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