

Active adiponectin, C1Q and collagen domain containing

Cat. No. Adipoq-48M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Trimeric form of adiponectin was expressed in <i>HEK293 cells</i> . The cysteine 39 was replaced with alanine (C39A). mAd-C39A can only form trimer, but not hexamer or HMW form.
Species	Mouse
Source	HEK293
Description	Adiponectin is a hormone exclusively expressed from adipose tissue. Many studies demonstrate that adiponectin has direct anti-diabetic, anti-atherogenic and anti-inflammatory functions. APM-1 can increase insulin sensitivity of skeletal muscle, attenuate hepatic lipogenesis and gluconeogenesis, regulate NO production in endothelial cells, inhibit proliferation of smooth muscle cells and prevent lipid accumulation of macrophage cells. In the circulation, adiponectin is present as three different oligomeric complexes, including the high molecular weight (HMW), the middle molecular weight (MMW, also called hexamer) and low molecular weight (LMW, also called trimer) forms. Different oligomeric complex of adiponectin activates different signaling pathways and exerts distinct functions.
Purity	Greater 95% as determined by SDS-PAGE.
Formulation	Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M phosphate buffer, 0.05M NaCl, pH 7.2.
Solubility	Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely.

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Activity	ED50= 3-8.5 µg/ml, as determined by its ability to inhibit proliferation of HASMCs induced by HB EGF.
Applications	In vitro, ex vivo and in vivo activity analysis, binding assay et al.
Storage	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized protein remains stable until the expiry date when stored at -20°C.

GENE INFORMATION

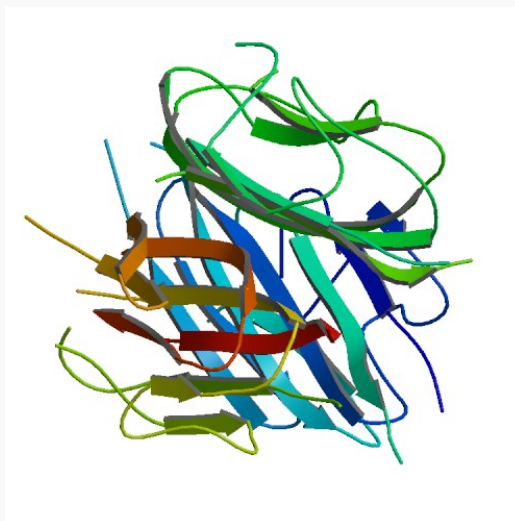
Gene Name	Adipoq adiponectin, C1Q and collagen domain containing [Mus musculus]
Synonyms	Adipoq; adiponectin, C1Q and collagen domain containing; APN; Acdc; apM1; 30kDa; GBP28; adipo; Acrp30; adiponectin
Gene ID	11450
mRNA Refseq	NM_009605
Protein Refseq	NP_033735
UniProt ID	Q60994
Chromosome Location	16 16.0 cM
Pathway	Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes mellitus
Function	hormone activity; protein binding; receptor binding

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