# Recombinant Mouse Adipoq

**Cat. No.** Adipoq-46M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Mouse adiponectin is 100% homologous with the Mouse serum adiponectin. |
| **Species** | Mouse |
| **Source** | HEK293 |
| **Description** | Adiponectin is an important negative regulator in hematopoiesis and immune systems. It may be involved in ending inflammatory responses through its inhibitory functions. Inhibits endothelial nf-kappa-b signaling through a camp-dependent pathway. Inhibits tnf-alpha-induced expression of endothelial adhesion molecules. Involved in the control of fat metabolism and insulin sensitivity. |
| **Physical Appearance** | Sterile Filtered White lyophilized (freeze-dried) powder. |
| **Purity** | Purity of adiponectin mouse recombinant is >98% (HPLC and SDS PAGE analyzed). |
| **Formulation** | Sterile filtered and lyophilized from 0.5 mg/ml in PBS buffer. |
| **Solubility** | Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely. |
| **Activity In Vitro** | Full-length adiponectin has been shown to activate AMP-activated protein kinase in hepatocyte. It can also activate AMPK in HepG2 human hepatocytes at the concentration of as low as 1.0 μg/ml. Full-length adiponectin purified from mammalian cells can acutely decrease blood glucose levels. Single subcutaneous injection of |

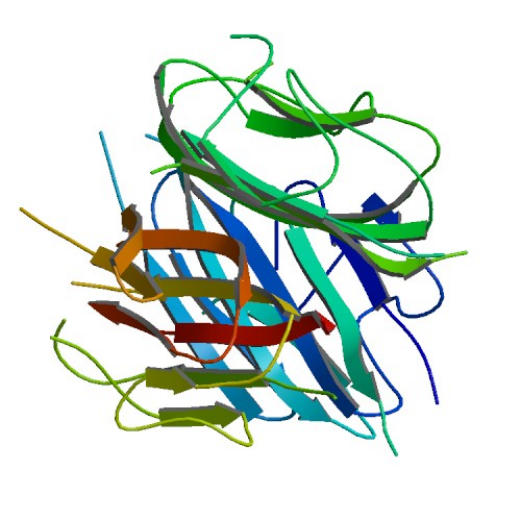
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| | adiponectin at the dose of 30 mg/g body weight significantly decreased the blood glucose levels in C57 mice. In vitro gluconeogenesis assay in primary rat hepatocytes was performed, showing the murine adiponectin derived from mammalian cells can inhibit glucose production. Effect of murine adiponectin on gluconeogenesis in primary rat hepatocytes. Primary rat hepatocytes were isolated and maintained as we described previously. The cells were then treated with 50 pM insulin plus different concentration of murine adiponectin purified from HEK293 cells for 48 hours. At the end of treatment, the cells were incubated with a glucose-free medium for 6 hours, and glucose production was measured as we described previously (n=4-6). |
| **Applications** | ELISA, Western blotting Cell culture and/or animal studies. |
| **Storage** | Store lyophilized APM-1 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

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| **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 |

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| **Chromosome Location** | 16 16.0 cM |
| **Pathway** | Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes mellitus |
| **Function** | hormone activity; protein binding; receptor binding |
| **PDB rendering based on 1c28.** |  |

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