

## Mouse Adiponectin - Purified

<b>Alternate names:</b>	30 kDa adipocyte complement-related protein, ACDC, ACRP30, ADIPOQ, APM1, Adipocyte, Adipocyte complement-related 30 kDa protein, Adipose most abundant gene transcript 1 protein, C1q and collagen domain-containing protein, GBP28, Gelatin-binding protein
<b>Catalog No.:</b>	AR31073PU-N
<b>Quantity:</b>	25 µg
<b>Background:</b>	Adiponectin is an adipose-derived secreted protein containing 236 amino acid residues. It is relatively abundant in humans and rodents, accounting for about 0.01% of total plasma protein. The circulating levels of adiponectin are decreased under conditions of obesity, insulin resistance, and type II diabetes. Disruption of adiponectin in mice causes insulin resistance and neointimal formation. Conversely, administration of recombinant adiponectin suppresses hepatic glucose production, and reverses insulin resistance associated with both lipatrophy and obesity. The protective role of adiponectin is attributed to its anti-inflammatory properties (e.g. ability to suppress expression of TNF-β and class A scavenger receptor in macrophages).
<b>Uniprot ID:</b>	<a href="#">Q60994</a>
<b>NCBI:</b>	<a href="#">NP_033735</a>
<b>GeneID:</b>	<a href="#">11450</a>
<b>Species:</b>	Mouse
<b>Source:</b>	High-5 Insect cells
<b>Format:</b>	<b>State:</b> Lyophilized (sterile filtered) protein <b>Purity:</b> >95% pure by SDS-PAGE and HPLC analyses. <b>Buffer System:</b> 20mM Tris, pH 8.5 + 75mM L-Arginine <b>Endotoxin Level:</b> < 0.1 ng per µg (< 1EU/µg) <b>Reconstitution:</b> Restore in water to a concentration of 0.1-1.0 mg/ml. <b>Note:</b> Allow the reconstituted vial to sit at room temperature for 30 minutes before use. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
<b>Description:</b>	Recombinant Adiponectin is a multimeric glycoprotein containing amino acids Val-21 to Asn-247 of the adiponectin precursor protein fused to an N-terminal histidine tag. Monomeric glycosylated adiponectin migrates at an apparent molecular weight of approximately 35.0 kDa by SDS PAGE analysis under reducing conditions. The calculated molecular weight of Recombinant Murine Adiponectin is 25.8 kDa. <b>AA Sequence:</b> RGHHHHHHHH VTTTEELAPA LVPPPKGTCA GWMAGIPGHP GHNGTPGRDG RDGTPGEKGE KGDAAGLLGPK GETGDVGMTG AEGPRGFPGT PGRKGEPEGA AYYVRSFAFSV GLETRVTVPN VPIRFTKIFY NQQNHYDGST GKPYCNIPGL YYFSYHITVY MKDVKVSLEFK KDKAVLFTYD QYQEKNVDAQ SGSVLLHLEV GDQVWLQVYG DGDHNGLYAD NVNDSTFTGF LLYHDTN

**Biological Activity:** Determined by a cytotoxic assay using M1 cells.  
The ED50 for this effect is 4.0-6.0 µg/ml.

**Molecular weight:** 25.8 kDa

**Add. Information:** Centrifuge the vial prior to opening!

**Storage:** Store lyophilized at 2-8°C for 6 months or at -20°C long term.  
After reconstitution store the antibody undiluted at 2-8°C for one month  
or (in aliquots) at -20°C long term.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.