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# Product datasheet for PA502X

## Adiponectin (biologically active) Mouse Protein

### Product data:

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| **Product Type:** | Recombinant Proteins |
| **Description:** | Adiponectin (biologically active) mouse protein, 0.1 mg |
| **Species:** | Mouse |
| **Expression Host:** | HEK293 |
| **Expression cDNA Clone or AA Sequence:** | EDDVTTTEEL APALVPPPKG TCAGWMAGIP GHPGHNGTPG RDGRDGTPGE KGEKGDAGLL GPKGETGDVG MTGAEGPRGF PGTPGRKGEP GEAAYMYRSA FSVGLETRVT VPNVPIRFTK IFYNQQNHYD GSTGKFYCNI PGLYYFSYHI TVYMKDVKVS LFKKDKAVLF TYDQYQEKNV DQASGSVLLH LEVGDQVWLQ VYGDGDHNGL YADNVNDSTF TGFLLYHDTN DYKDDDDK |
| **Concentration:** | lot specific |
| **Purity:** | >98% as determined by densitometric image analysis |
| **Buffer:** | Presentation State: Purified<br>State: Lyophilized (0.4µm filtered) purified protein<br>Buffer System: 0.05M Phosphate buffer, 0.075M NaCl, pH 7.4 |
| **Bioactivity:** | Biological: 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. In vitro gluconeogenesis assay in primary rat hepatocytes was performed, showing the murine adiponectin derived from mammalian cells can inhibit glucose production. |
| **Reconstitution Method:** | Add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. |
| **Preparation:** | Lyophilized (0.4µm filtered) purified protein |
| **Applications:** | **ELISA.**<br>**Western Blot.**<br>**Cell culture and/or animal studies.** |
| **Protein Description:** | Mouse Adiponectin |
| **Note:** | Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture. |

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| **Storage:** | Store lyophilized (preferably in a desiccator) at -20°C and in aliquots at -80°C.<br>Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after two weeks at 4°C.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |
| **RefSeq:** | NP_033735 |
| **Locus ID:** | 11450 |
| **UniProt ID:** | Q60994 |
| **Cytogenetics:** | 16 13.96 cM |
| **Synonyms:** | ADIPOQ, ACDC, ACRP30, APM1, GBP28 |
| **Summary:** | Important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW.[UniProtKB/Swiss-Prot Function] |
| **Protein Families:** | **ELISA.**<br>**Western Blot.**<br>**Cell culture and/or animal studies.** |

## Product images: