

## Recombinant Mouse Adiponectin HEK derived (rm Acrp30 HEK)

**Synonyms:** APM-1.

**Introduction:** Adiponectin is the product of the apM1 gene which is physiologically active and specifically and highly expressed in adipose cells (Adipokine). The protein belongs to the soluble defense collagen super family; it has a collagen-like domain structurally homologous with collagen VIII and X and complement factor C1q-like globular domain. Adiponectin is produced and secreted exclusively by adipocytes, and is a relatively abundant plasma protein, accounting for up to 0.05% of total serum protein. Adiponectin forms homotrimers, which are the building blocks for higher order complexes found circulating in serum. It is capable of decreasing hyperglycemia and reversing insulin resistance.

**Description:** Mouse recombinant Adiponectin produced in HEK293 is a single polypeptide chain containing 244 amino acids. Adiponectin is fused with FLAG-tag.

**Source:** HEK293(Human Embryonic Kidney cell line)

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a sterile filtered 0.4µm solution in PBS buffer  
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely.

**Stability:** For long term store lyophilized Adiponectin 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 for 24 months when stored at -20°C. Please prevent freeze-thaw cycles.

**Purity:** Greater than 98.0% as determined by HPLC and SDS-PAGE.

**Amino Acid Sequence:** ETTTQGGPVL LPLPKGACTG WMAGIPGHPG HNGAPGRDGR DGTPGEKGEK  
GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ GRKGEPGE GA YVYRSAFSVG LETYVTIPNM PIRFTKIFYN  
QQNHYDGSTG KFHCNIPGLY YFAYHIVYMK DVKVSFLFKK KAMLFTYDQY QENNVDQASG SVLLHLEVG  
D QVWLQVYGE ERNGLYADND NDSTFTGFLL YHDTNDYKDDDDK.

**Biological Activity:** Full-length mouse adiponectin activates AMP-activated protein kinase in hepatocyte and activates AMPK in HepG2 human hepatocytes at a concentration of 1µg/ml.  
Mouse adiponectin mammalian cell derived inhibits glucose production as shown by in-vitro gluconeogenesis assay in primary rat hepatocytes.

**Application:** ELISA, Western blotting, cell culture and/or animal studies.

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<i>small</i>	2 µg	Cat.N°	12344462
<i>medium</i>	10 µg	Cat.N°	12344463

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