

## Acrp30 Human, Trimeric

**Description:** Trimeric form of Adiponectin Human trimeric form was expressed in HEK293 cells. The cysteine 39 was replaced with Alanine (C39A) 9. hAd-C39A can only form a trimer, but not a hexamer or an HMW form.

**Synonyms:** Acrp30, AdipoQ, GBP-28, APM-1, ACDC.

**Source:** HEK293 (Human embryonic kidney cell line).

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

**Amino Acid Sequence:** ETTTQGGPVL LPLPKGAATG WMAGIPGHPG HNGAPGRDGR  
DGTPGEKGEK GDPGLIGPKG DIGETGVPGA EGPRGFPGIQ GRKGEPGEA YVYRSFAFSVG  
LETYVTIPNM PIRFTKIFYN QQNHYDGTG KFHCHNIPGLY YFAYHIVYMK DVKVSFLFKD  
KAMLFTYDQY QENNVDQASG SVLLHLEVD QVWLQVYGE ERNGLYADND NDSTFTGFL  
YHDTNDYKDD DD

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

Filtered (0.4

**Stability:**

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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

Add deionized water to a working volume of 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

**Introduction:**

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.

**Biological Activity:**

ED50= 3-8.5 g/ml, as determined by its ability to inhibit proliferation of HASMCs induced by HB

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