

Adiponectin/Acrp30 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P78234
Synonyms:	ACDC; Acrp30; ADPN; Adiponectin; AdipoQ; ADIPQTL1; APM1APM-1; GBP28; GBP28apM1; APM-1; APM1
Species:	Mouse
Source:	HEK293
Accession:	Q60994 (E18-N247)
Gene ID:	11450
Molecular Weight:	52-70 kDa

PROPERTIES

AA Sequence	<pre> EDDVTTTEEL APALVPPPKG TCAGWMAGIP GHPGHNGTPG RDGRDGTPE KGEKGDAGLL GPKGETGDVG MTGAEGPRGF PGTPGRKGE GEAAVYRSA FSVGLETRVT VPNVPIRFTK IFYNQNHVD GSTGKFYCN PGLYYSYHI TVYMKDKVVS LFKKDKAVLF TYDQYQEKV DQASGSVLLH LEVGDQVWLQ VYGDGDHNGL YADNVNDSTF TGFLLYHDTN </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Adiponectin is a protein hormone and adipokine, which is involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Adiponectin has direct actions in liver, skeletal muscle, and the vasculature. Adiponectin exists in the circulation as varying molecular weight forms, produced by multimerization. Adiponectin enhances insulin sensitivity primarily by regulating fatty acid oxidation and inhibiting hepatic glucose production. It can also promote synaptic and memory function in the brain. Adiponectin stimulates AMPK phosphorylation and activation in the liver and skeletal muscle, enhancing glucose utilization and fatty-acid combustion. At</p>
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the same time, it antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Adiponectin inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. Adiponectin 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 [1][2][3][5][6][7].

Caution: Product has not been fully validated for medical applications. For research use only.

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