

## Adiponectin/Acrp30 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P7461
Synonyms:	rMuAdiponectin, His; Acrp30; ADIPOQ
Species:	Mouse
Source:	HEK293
Accession:	Q60994 (E18-N247)
Gene ID:	11450
Molecular Weight:	Approximately 27-33 kDa due to the glycosylation

### PROPERTIES

AA Sequence	<p>             E D D V T T T E E L    A P A L V P P P K G    T C A G W M A G I P    G H P G H N G T P G              R D G R D G T P G E    K G E K G D A G L L    G P K G E T G D V G    M T G A E G P R G F              P G T P G R K G E P    G E A A Y V Y R S A    F S V G L E T R V T    V P N V P I R F T K              I F Y N Q Q N H Y D    G S T G K F Y C N I    P G L Y Y F S Y H I    T V Y M K D V K V S              L F K K D K A V L F    T Y D Q Y Q E K N V    D Q A S G S V L L H    L E V G D Q V W L Q              V Y G D G D H N G L    Y A D N V N D S T F    T G F L L Y H D T N           </p>
Biological Activity	Measured by its ability to inhibit glucose production by rat hepatocytes. The IC <sub>50</sub> for this effect is ≤0.673 µg/mL, corresponding to a specific activity is ≥1.486×10 <sup>3</sup> units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, pH 7.4.
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 <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Adiponectin has direct actions in liver, skeletal muscle, and the vasculature. Adiponectin exists in the circulation as varying molecular weight forms, produced by multimerization. Several endoplasmic reticulum ER-associated proteins, including ER oxidoreductase 1-α (Ero1-α), ER resident protein 44 (ERp44), disulfide-bond A oxidoreductase-like protein (DsbA-L), and
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glucose-regulated protein 94 (GPR94), have recently been found to be involved in the assembly and secretion of higher-order adiponectin complexes. Adiponectin administration in humans and rodents has insulin-sensitizing, anti-atherogenic, and anti-inflammatory effects, and, in certain settings, also decreases body weight<sup>[1]</sup>.

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## REFERENCES

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[1]. Arunkumar E Achari, et al. Adiponectin, a Therapeutic Target for Obesity, Diabetes, and Endothelial Dysfunction. Int J Mol Sci. 2017 Jun 21;18(6):1321.

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

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