

## Adiponectin/Acrp30 Protein, Human (HEK293)

Cat. No.:	HY-P7127
Synonyms:	rHuAdiponectin; Acrp-30; GBP-28; Apm-1; Acrp 30; Acrp30
Species:	Human
Source:	HEK293
Accession:	Q15848 (K101-N244)
Gene ID:	9370
Molecular Weight:	16-17 kDa

### PROPERTIES

AA Sequence	<p>           K G E P G E G A Y V    Y R S A F S V G L E    T Y V T I P N M P I    R F T K I F Y N Q Q            N H Y D G S T G K F    H C N I P G L Y Y F    A Y H I T V Y M K D    V K V S L F K K D K            A M L F T Y D Q Y Q    E N 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 E G E            R N G L Y A D N D N    D S T F T G F L L Y    H D T N         </p>
Biological Activity	The ED <sub>50</sub> is <2 µg/mL as measured by M1 cells.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 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	<p>Recombinant Human Adiponectin can be used in the injured artery and attenuates vascular inflammatory response. It is reported that physiological concentrations of Recombinant Human Adiponectin suppress tumor necrosis factor-α(TNF-α)-induced endothelial adhesion molecule expression, transformation from macrophage to foam cell, and TNF-α expression in macrophages<sup>[1]</sup>. Recombinant Human Adiponectin can be used as a potential protein for treating diabetic tendinopathy promotes tenocyte progenitor cells proliferation and tenogenic differentiation in vitro<sup>[2]</sup>.</p>
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## REFERENCES

- [1]. Kumada M, et al. Adiponectin specifically increased tissue inhibitor of metalloproteinase-1 through interleukin-10 expression in human macrophages. *Circulation*. 2004 May 4;109(17):2046-9.
- [2]. Rothan HA, et al. Recombinant human adiponectin as a potential protein for treating diabetic tendinopathy promotes tenocyte progenitor cells proliferation and tenogenic differentiation in vitro. *Int J Med Sci*. 2013 Nov 27;10(13):1899-906.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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