

## Adiponectin/Acrp30 Protein, Human (CHO)

Cat. No.:	HY-P7126
Synonyms:	rHuAdiponectin; Acrp-30; GBP-28; Apm-1; Acrp 30; Acrp30
Species:	Human
Source:	CHO
Accession:	Q15848 (E19-N244)
Gene ID:	9370
Molecular Weight:	25-28 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           E T T T Q G P G V L    L P L P K G A C T G    W M A G I P G H P G    H N G A P G R D G R            D G T P G E K G E K    G D P G L I G P K G    D I G E T G V P G A    E G P R G F P G I Q            G R 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>
<b>Biological Activity</b>	The ED <sub>50</sub> is <20 µg/mL as measured by M1 cells.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Endotoxin Level</b>	<0.2 EU/µg, determined by LAL method.
<b>Reconstitution</b>	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).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<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</p>
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promotes tenocyte progenitor cells proliferation and tenogenic differentiation in vitro<sup>[2]</sup>.

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## REFERENCES

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[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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