

Adiponectin/Acrp30 Protein, Bovine (P.pastoris, His)

Cat. No.:	HY-P71827
Synonyms:	ADIPOQ; ACRP30 Adipocyte complement-related 30kDa protein; ACRP30; Adipocyte; C1q and collagen domain-containing protein; Adipose most abundant gene transcript 1 protein; apM-1
Species:	Bovine
Source:	P. pastoris
Accession:	Q3Y5Z3 (E18-E240)
Gene ID:	282865
Molecular Weight:	Approximately 27 kDa

PROPERTIES

AA Sequence	<pre> E D N M E D P P L P K G A 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 P G L V G P K G D T G E T G I T G I E G P R G F P G T P G R K G E P G E S A Y V Y R S A F S V G L E R Q V T V P N V P I R F T K I F Y N Q Q N H Y D G T T G K F L C N I P G L Y Y F S Y H I T V Y L K D V K V S L Y K N D K A L L F T H D Q F Q D K N V D Q A S G S V L L Y L E K G D Q V W L Q V Y E G E N H N G V Y A D N V N D S T F T G F L L Y H N I V E </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
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>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^[1]. Recombinant Human Adiponectin can be used as a potential protein for treating diabetic tendinopathy promotes tenocyte progenitor cells proliferation and tenogenic differentiation in vitro^[2].</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.

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

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