

Adiponectin/Acrp30 Protein, Human (277a.a)

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| Cat. No.: | HY-P7128 |
| Synonyms: | rHuAdiponectin; Acrp-30; GBP-28; Apm-1; Acrp 30; Acrp30 |
| Species: | Human |
| Source: | E. coli |
| Accession: | Q15848 (E19-N244) |
| Gene ID: | 9370 |
| Molecular Weight: | Approximately 24.7 kDa |

PROPERTIES

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| AA Sequence | <pre> M 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 </pre> |
| Biological Activity | The ED ₅₀ is <5 µg/mL as measured by M1 cells, corresponding to a specific activity of >2.0 × 10 ² units/mg. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized after extensive dialysis against 50 mM Tris, 150 mM NaCl, pH 8.0. |
| 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 ₂ 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

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| Background | 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 |
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promotes tenocyte progenitor cells proliferation and tenogenic differentiation in vitro^[2].

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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