



Overview

Synonyms Acrp-30, GBP-28, Apm-1

Adiponectin is a hormone mainly produced by adipocytes. Adiponectin forms a

homotrimer and exists as higher order multimers in vivo. The receptors of Adiponectin are seven-transmembrane G protein coupled receptors: Receptor 1 is expressed in skeletal muscle and Receptor 2 in liver. Adiponectin receives a lot of attention because of its antidiabetic, anti-atherosclerotic, and anti-inflammatory properties. Adiponectin increases the expression of molecules involved in fatty acid transport, combustion of fatty acid, and

Description energy dissipation, and increases insulin sensitivity of the body. Decreased levels of

> Adiponectin are associated with hypertension, cardiovascular diseases, and metabolic syndromes. Therefore, Adiponectin has promising potential as a pharmacological agent. Recombinant human Adiponectin (rhAdiponectin) produced in E. coli is a single nonglycosylated polypeptide chain containing 227 amino acids. A fully biologically active molecule, rhAdiponectin has a molecular mass of 24.7 kDa analyzed by reducing SDS-

PAGE and is obtained by proprietary chromatographic techniques.

Accession No Q15848

> Species Human E. coli Source

ED₅₀ < 5 μg/mL, measured by a cell growth inhibitory assay using M1 cells, corresponding **Biological Activity**

to a specific activity of $> 2 \times 10^2$ units/mg.

METTTQGPGV LLPLPKGACT GWMAGIPGHP GHNGAPGRDG RDGTPGEKGE KGDPGLIGPK GDIGETGVPG AEGPRGFPGI QGRKGEPGEG AYVYRSAFSV GLETYVTIPN MPIRFTKIFY NQQNHYDGST GKFHCNIPGL YYFAYHITVY MKDVKVSLFK KDKAMLFTYD QYQENNVDQA SGSVLLHLEV GDQVWLQVYG

EGERNGLYAD NDNDSTFTGF LLYHDTN

Properties

Sequence

Measured Molecular 24.7 kDa, observed by reducing SDS-PAGE.

Weight

> 95% as analyzed by SDS-PAGE and HPLC. Purity

Formulation Lyophilized after extensive dialysis against 50 mM Tris, 150 mM NaCl, pH8.0.

Reconstitution Reconstituted in ddH₂O at 100 μg/mL. Endotoxin Level < 0.2 EU/µg, determined by LAL method.

Lyophilized recombinant human Adiponectin (rhAdiponectin) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhAdiponectin

remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.

Note For research use only

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Storage

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