

Datasheet for ABIN2017659
ADIPOQ Protein (AA 19-244)



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Overview

Quantity:	50 µg
Target:	ADIPOQ
Protein Characteristics:	AA 19-244
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 5 µg/mL, measured by a cell growth inhibitory assay using M1 cells, corresponding to a specific activity of > 2x 10 ² units/mg. AA 19-244, expressed with an N-terminal Met.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	ADIPOQ
Alternative Name:	Adiponectin (ADIPOQ Products)
Background:	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

Target Details

Receptor 2 in liver. Adiponectin receives a lot of attention because of its anti-diabetic, anti-atherosclerotic, and anti-inflammatory properties. Adiponectin increases the expression of molecules involved in fatty acid transport, combustion of fatty acid, and 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 non-glycosylated 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.

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

Molecular Weight: 24.7 kDa, observed by reducing SDS-PAGE.

UniProt: [Q15848](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against 50 mM Tris, 150 mM NaCl, pH 8.0.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Adiponectin (rhAdiponectin) remains stable up to 6 months at -80 °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.

Expiry Date: 6 months