

Active Recombinant Human Adiponectin, C1Q And Collagen Domain Containing

Cat. No. ADIPOQ-4956H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ADIPOQ protein was expressed in Hi-5 Insect cells and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Adiponectin is an adipose-derived secreted protein containing 226 amino acid residues. It is relatively abundant in humans and rodents, accounting for about 0.01% of total plasma protein. The circulating levels of adiponectin are decreased under conditions of obesity, insulin resistance, and type II diabetes. Disruption of adiponectin in mice causes insulin resistance and neointimal formation. Conversely, administration of recombinant adiponectin suppresses hepatic glucose production, and reverses insulin resistance associated with both lipotrophy and obesity.
Form	Lyophilized from 20mM tris, pH 8.5, with 250mM L-arginine. Reconstitute in water to a concentration of 1.0 mg/ml.
Purity	>97% pure by SDS PAGE and HPLC
Sequence	1-248 amino acids: MERASLIQKA KLAEQAERYE DMAAFMKGAV EKGEELSCEE RNLLSVAYKN VVGQRAAWR VLSSIEQKSN EEGSEEKGPE VREYREKVVET ELQGVCDTVL GLLDSHLIKE AGDAESRVFY LKMKGDYYRY LAEVATGDDK KRIIDSARSA YQEAMDISKK EMPPTNPRL GLALNFSVFH YEIANSPEEA

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ISLAKTTTFDE AMADLHTLSE DSYKD

Applications

Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions

Endotoxin Levels

Endotoxin level is less than 0.1 ng per ug (1 EU/ug).

Bioactivity

Determined by a cytotoxic assay using M1 cells. The ED50 for this effect is 3.0-6.0 ug/ml.

Storage

Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name

ADIPOQ adiponectin, C1Q and collagen domain containing [Homo sapiens]

Official Symbol

ADIPOQ

Synonyms

ADIPOQ; adiponectin, C1Q and collagen domain containing; ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1; adiponectin; AdipoQ; apM1; adipose most abundant gene transcript 1; Adiponectin; Adipocyte, C1q and collagen domain-containing protein; 30 kDa adipocyte complement-related protein; Adipocyte complement-related 30 kDa protein; Adipose most abundant gene transcript 1 protein; apM-1; Gelatin-binding protein

Gene ID

9370

mRNA Refseq

NM_004797

Protein Refseq

NP_004788

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MIM	605441
UniProt ID	Q15848
Chromosome Location	3q27
Pathway	Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes melitus
Function	cytokine activity; eukaryotic cell surface binding; hormone activity; protein homodimerization activity
PDBrendering based on 1c28.	

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