

Active Recombinant Human Adiponectin, C1Q And Collagen Domain Containing

Cat. No. ADIPOQ-490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human adiponectin, C1Q and collagen domain containing encoding the human Adiponectin protein sequence (containing the signal peptide sequence, and the mature Adiponectin sequence) was expressed in modified <i>human 293 cells</i> .
Species	Human
Source	HEK293
Description	Adiponectin is a member of the 'adipocytokines' that are cytokines that are expressed from adipose tissues. Its general functions include regulation of energy homeostasis, hematopoiesis, inflammation and immunity.
Amino Acid Sequence	ETTTQGPGVLLPLPKGACTGWMAGIPGHPGHNGAPGRDGRDGPGEKGEKGD LIGPKGDIGETGVPGAEGPRGFPGIQGRKGEPGEGAYVYRSAFSVGLETYVTIPNMP IRFTKIFYNQNHYDGSTGKFHCNIPGLYYFAYHITVYMKDVKVSLFKKDKAMLFTYD QYQENNVDAQSGSVLLHLEVGDQVWLQVYGEGERNGLYADNDNDSTFTGFLLYHD TN.
Molecular Mass	Adiponectin migrates as a broad band between 25 and 35 kDa in SDS-PAGE due to post-translational modifications, in particular glycosylation.
pI	Adiponectin separates into a number of glycoforms with an observed pI between 4.5 and 8.0 on 2D PAGE due to post-translational modifications, in particular glycosylation.

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% Carbohydrate	Purified Adiponectin consists of 0 to 30% carbohydrate by weight.
Glycosylation	Adiponectin contains O-linked oligosaccharides.
Purity	>95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.
Formulation	When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial.
Storage	Lyophilized products should be stored at 2 to 8°C. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.
Activity	The ED50 of adiponectinB is typically 3-5 ug/ml as measured by its ability to inhibit M1 cell proliferation.

GENE INFORMATION

Gene Name	ADIPOQ adiponectin, C1Q and collagen domain containing [Homo sapiens]
Synonyms	ADIPOQ; adiponectin, C1Q and collagen domain containing; ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1; adiponectin; APM1
Gene ID	9370
mRNA Refseq	NM_004797
Protein Refseq	NP_004788

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UniProt ID	Q15848
Chromosome Location	3q27
MIM	605441
Pathway	Adipocytokine signaling pathway; PPAR signaling pathway; ligand-receptor interaction; Type II diabetes mellitus
Function	cytokine activity; eukaryotic cell surface binding; growth factor activity; protein homodimerization activity
PDB rendering based on 1c28.	