Active Recombinant Human Adiponectin, C1Q And Collagen Domain Containing

Cat. No. ADIPOQ-4957H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ADIPOQ protein was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	The gAcrp30 variant is a naturally occurring globular protein, obtained by proteolytic processing of adiponectin. Adiponectin is produced and secreted exclusively by adipocytes, and is a relatively abundant plasma protein, accounting for up to 0.05% of total serum protein. Like Adiponectin, Acrp30 is capable of decreasing hyperglycemia and reversing insulin resistance. Additionally, gAcrp30 has been shown to be an important factor in promoting fat loss by signaling muscle to absorb and burn Free-Fatty Acids (FFAs). The signaling receptors for adiponectin and gAcrp30 have recently been identified and names AdipoR1 and AdipoR2. AdipoR2 is predominantly expressed in the liver.
Form	Supplied as a lyophilized powder.
Purity	>98% pure by SDS PAGE and HPLC
Sequence	Region of gAcrp30 protein corresponding to amino acids PGAEGPRGFP GIQGRKGEPG EGAYVYRSAF SVGLETYVTI PNMPIRFTKI FYNQQNHYDG STGKFHCNIP GLYYFAYHIT VYMKDVKVSL FKKDKAMLFT YDQYQENNVD

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	QASGSVLLHL EVGDQVWLQV YGEGERNGLY ADNDNDSTFT GFLLYHDTN.
Molecular Mass	18.1 kDa
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 cytotoxicity assay using M1 cells. The expected ED50 for this effect is 0.5-1.0 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

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Protein Refseq	NP_004788
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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