

Recombinant Human ADIPOQ, 145aa

Cat. No. ADIPOQ-693H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This recombinant human gAcrp30/Adipolean is a 16.6 kDa protein consisting of 145 amino acid residues. It is produced in <i>E.coli</i> .
Species	Human
Source	E.coli
Description	The gAcrp30 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, gAcrp30 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).
Amino Acid Sequence	MKGEPGEGAY VYRSAFSVGL ETYVTIPNMP IRFTKIFYNQ QNHYDGGSTGKFHCNIPGLYY FAYHITVYMK DVKVSFLFKKD KAMLFTYDQY QENNVDQASGSVLLHLEVG D QVWLQVYGE ERNGLYADND NDSTFTGFL YHDTN.
Supplied	The sterile filtered solution was from 10mM Tris, pH 9.2 + 0.05% Sarcosyl + 0.75mM DTT.
Note	If this material is not to be used for coating or labeling (or other applications requiring carrier free material), the addition of 0.1% BSA to dilution buffers or dilution in sterile

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	culture media is recommended to enhance stability and minimize absorption to vial. Ideally, maintain stock >10ug/ml.
Purity	>98% by SDS-Page analysis Endotoxin <1EU/ug.
Reconstitution	The human gACRp30 should be reconstituted in water to a concentration of <0.3mg/ml. Allow to set at least 30 minutes at 4-8 °C, Mix well. If desired, centrifuge for 1-2 minutes at 1000 rpm to concentrate material in vial. This solution can be diluted into other buffered solutions and stored at 4°C for up to 1 week or stored at -20°C for future use.
Reactivity	Determined by its ability to inhibit the proliferation of murine myeloid cell lines M1. the ED50 for this effect is <3ug/ml, corresponding to a specific activity of 3.3 X 10 E05 units/mg.
Availability	Goat anti-human Adipolean (antigen aff pure, lyophilized, no carrier/no preservative) Goat anti-human Adipolean: Biotin conjugated (antigen aff pure, conjugated to Biotin, lyophilized, carrier free).
Storage	The powder is stable at room temperature for a few weeks but it is best stored desiccated at -20°C. Reconstituted material should be stored in working aliquots at -20°C. Avoid frequent freeze thaw cycles.

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

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Gene ID	9370
mRNA Refseq	NM_004797
Protein Refseq	NP_004788
MIM	605441
UniProt ID	Q15848
Chromosome Location	3q27
Pathway	Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes mellitus
Function	cytokine activity; eukaryotic cell surface binding; hormone activity; protein homodimerization activity
PDB rendering based on 1c28.	