

## Recombinant Human ADIPOQ, His-tagged

Cat. No. ADIPOQ-44H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Adiponectin is created as a recombinant protein with N-terminal fusion of His Tag. The Adiponectin His-Tagged Fusion Protein, produced in E. coli, is 26.4 kDa protein containing 230 amino acid residues of the Acrp30 human and 12 additional amino acid residues-His-tagged (underlined).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Adiponectin, also referred to as Acrp30, AdipoQ and GBP-28, is a recently discovered 244 amino acid protein, the product of the apM1 gene, which is physiologically active and specifically and highly expressed in adipose cells (Adipokine). The protein belongs to the soluble defense collagen super family; it has a collagen-like domain structurally homologous with collagen VIII and X and complement factor C1q-like globular domain. APM-1 forms homotrimers, which are the building blocks for higher order complexes found circulating in serum.
<b>Amino Acid Sequence</b>	MRGSHHHHHHGSGHDQETTT QGPGVLLPLP KGA CTGWMAG IPGHPGHNGA PGRDGRDGTP GEKGEKGDGP LIGPKGDIGE TGVPGAEGPR GFPGIQGRKG EPGEGAYVYR SAFSVGLETY VTIPNMPPIRF TKIFYNQNH YDGSTGKFHC NIPGLYYFAY HITVYMKDVK VSLFKKDKAM LFTYDQYQEN NVDQASGSVL LHLEVGDQVW LQVYGEGERN GLYADNDNDS TFTGFLLYHD TN.
<b>Specificity</b>	The amino acid sequence of the APM-1 Human Recombinant is 100% homologous to

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	the amino acid sequence of the Adiponectin human serum.
<b>Purification Method</b>	Three-step procedure using affinity Ni-NTA chromatography and size exclusion chromatography before and after refolding.
<b>Purity</b>	Greater than 95% as determined by SDS-PAGE analyzed.
<b>Formulation</b>	Sterile filtered and lyophilized from 0.5 mg/ml in 0.02 M Tris buffer pH7.5, 0.15 M NaCl.
<b>Solubility</b>	Add 0.2 ml of 0.1M Acetate buffer pH4 and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10g/ml. In higher concentrations the solubility of this antigen is limited.
<b>Quality Control Test</b>	BCA - to determine content of the protein. SDS PAGE - to determine purity of the protein.
<b>Applications</b>	Western blotting.
<b>Storage</b>	Store lyophilized Adiponectin at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized APM-1 remains stable until the expiry date when stored at -20°C.

## GENE INFORMATION

<b>Gene Name</b>	ADIPOQ adiponectin, C1Q and collagen domain containing [ Homo sapiens ]
<b>Synonyms</b>	ADIPOQ; adiponectin, C1Q and collagen domain containing; ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1; adiponectin; APM1

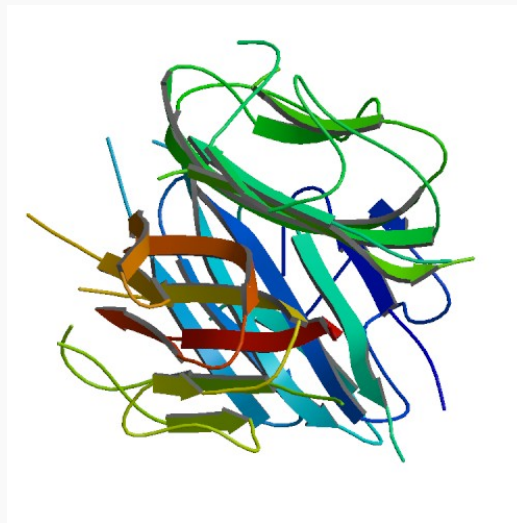
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<b>Gene ID</b>	9370
<b>mRNA Refseq</b>	NM_004797
<b>Protein Refseq</b>	NP_004788
<b>UniProt ID</b>	Q15848
<b>Chromosome Location</b>	3q27
<b>MIM</b>	605441
<b>Pathway</b>	Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes mellitus
<b>Function</b>	cytokine activity; eukaryotic cell surface binding; hormone activity; protein homodimerization activity

PDB rendering based on 1c28.



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