ACRP30 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Acrp30, Recombinant Protein
Full Product Name	Recombinant Human Acrp30 Protein
Product Gene Name	Acrp30 recombinant protein
Product Synonym Names	ACDC; ACRP30; APM1; GBP28; Acrp30
Host	E Coli
Purity/Purification	> 95% as determined by SDS-PAGE
Molecular Weight	26kDa
OMIM	D45371 mRNA
3D Structure	ModBase 3D Structure for Q15848
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for Acrp30 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for Acrp30 recombinant protein	MBS286144 is a recombinant protein targeting Acrp30. Also known as Recombinant Human Acrp30 Protein. Host: E Coli.
Other Notes	Small volumes of Acrp30 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Acrp30. It may not necessarily be applicable to this product.

NCBI GI #	295317372
NCBI GeneID	9370
NCBI Accession #	NP_001171271.1
UniProt Primary Accession #	Q15848
UniProt Secondary Accession #	Q58EX9
UniProt Related Accession #	Q15848
GenBank Nucleotide #	NM_001177800.1
NCBI Official Full Name	adiponectin
NCBI Official Synonym Full Names	adiponectin, C1Q and collagen domain containing
NCBI Official Symbol	ADIPOQ
NCBI Official Synonym Symbols	ACDC; ADPN; APM1; APM-1; GBP28; ACRP30; ADIPQTL1
UniProt Protein Name	Adiponectin

UniProt Synonym Protein Names	30 kDa adipocyte complement-related protein; Adipocyte complement-related 30 kDa protein; ACRP30; Adipocyte, C1q and collagen domain-containing protein; Adipose most abundant gene transcript 1 protein; apM-1; Gelatin-binding protein
Protein Family	Adiponectin
UniProt Gene Name	ADIPOQ
UniProt Synonym Gene Names	ACDC; ACRP30; APM1; GBP28; ACRP30; apM-1
UniProt Entry Name	ADIPO_HUMAN
NCBI Protein Information	adiponectin
NCBI Summary for Acrp30	This gene is expressed in adipose tissue exclusively. It encodes a protein with similarity to collagens X and VIII and complement factor C1q. The encoded protein circulates in the plasma and is involved with metabolic and hormonal processes. Mutations in this gene are associated with adiponectin deficiency. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Apr 2010]
UniProt Comments for Acrp30	adiponectin: Important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW. Homomultimer. Forms trimers, hexamers and 12- to 18-mers. The trimers (low molecular weight complexes / LMW) are assembled via non-covalent interactions of the collagen-like domains in a triple helix and hydrophobic interactions within the globular C1q domain. Several trimers can associate to form disulfide-linked hexamers (middle molecular weight complexes / MMW) and larger complexes (higher molecular weight / HMW). The HMW-complex assembly may rely aditionally on lysine hydroxylation and glycosylation. LMW, MMW and HMW complexes bind to HBEGF, MMW and HMW complexes bind to PDGFB, and HMW complex binds to FGF2. Interacts with CTRP9A via the C1q domain (heterotrimeric complex). Synthesized exclusively by adipocytes and secreted into plasma. Protein type: Endoplasmic reticulum; Hormone; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3q27 Cellular Component: cell surface; endoplasmic reticulum; extracellular region; extracellular space Molecular Function: hormone activity; identical protein binding; protein binding; protein homodimerization activity; receptor binding; sialic acid binding Biological Process: brown fat cell differentiation; cellular response to insulin stimulus; fatty acid beta-oxidation; fatty acid oxidation; generation of precursor metabolites and energy; glucose homeostasis; glucose metabolic process; negative regulation of blood pressure; negative regulation of cell migration; negative regulation of fat cell differentiation; negative regulation of gluconeogenesis; negative regulation of granulocyte differentiation; negative regulation of heterotypic cell-cell adhesion; negative regulation of I-kappaB kinase/NF-kappaB cascade; negative regulation of inflammatory response; negative regulation of low-density lipoprotein receptor biosynthetic process; negative regulation of macrophage differentiation; negative regulation of MAP kinase activity; negative regulation of phagocytosis; negative regulation of protein amino acid autophosphorylation; negative regulation of smooth muscle cell migration; negative regulation of smooth muscle cell proliferation; negative regulation of synaptic transmission; negative regulation of transcription, DNA-dependent; negative regulation of tumor necrosis factor production; positive regulation of cellular protein metabolic process; positive regulation of fatty acid metabolic process; positive regulation of glucose import; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of interleukin-8 production; positive regulation of myeloid cell apoptosis; positive regulation of protein amino acid phosphorylation; positive regulation of signal transduction; protein homooligomerization; response to glucose stimulus Disease: Adiponectin, Serum Level Of, Quantitative Trait Locus 1
Research Articles on Acrp30	**1.** Serum adiponectin is independently associated with the metabolic syndrome in Chinese women with PCOS. Further longitudinal follow-up studies are needed to determine whether serum adiponectin adds to the prediction of long-term cardiometabolic morbidity conferred by age, BMI and measures of insulin resistance.

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