

Recombinant Rat Adipoq, FLAG-tagged

Cat. No. Adipoq-195R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat adiponectin encoding the mature peptide of rat adiponectin (amino acid His16~Asn244) was tagged with FLAG at the N-terminus. The tagged protein was expressed in a human embryonic kidney cell line, <i>HEK293</i> , and purified from conditioned media.
Species	Rat
Source	HEK293
Protein Length	16-244 a.a.
Description	Adiponectin, also known as apM1, Acrp30, GBP28 and adipoQ, is a circulating hormone predominantly produced from adipose tissue. Many pharmacological studies demonstrated that this protein possesses potent anti-diabetic, anti-atherogenic and anti-inflammatory functions. Supplement of adiponectin protein can decrease blood glucose, improve insulin sensitivity, alleviate fatty liver and prevent atherosclerosis. The protein is post-translationally modified by hydroxylation and glycosylation, and forms three different oligomeric complexes in the circulation.
Formulation	0.2 m filtered solution in phosphate-buffered saline.
Activity	effect on the phosphorylation of acetyl-CoA carboxylase in C2C12 cells.
Purity	>95%, as determined by SDS-PAGE.

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Endotoxin Level <0.1EU/g, as determined by the LAL method.

Stability Storage And Handling The protein solution should be stored in working aliquots at -20°C for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name Adipoq adiponectin, C1Q and collagen domain containing [*Rattus norvegicus*]

Synonyms adiponectin, C1Q and collagen domain containing; Acdc; Acrp30; Adipoq; adiponectin; adipocyte complement related protein of 30 kDa

Gene ID 246253

mRNA Refseq NM_144744

Protein Refseq NP_653345

Chromosome Location 11q23

Pathway Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes mellitus

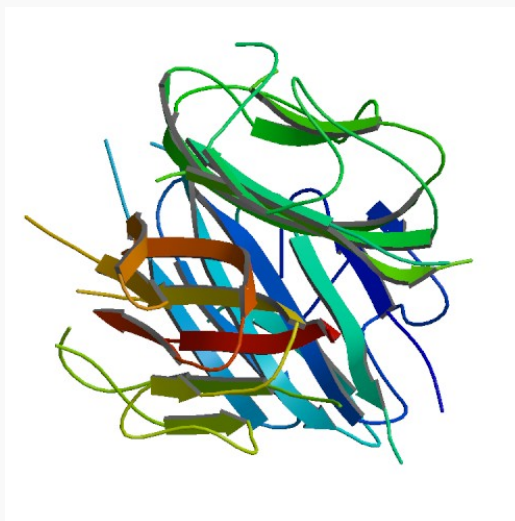
Function eukaryotic cell surface binding; hormone activity; molecular_function; protein homodimerization activity

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