

Recombinant Mouse Adiponectin, Globular Domain

Cat. No. Adipoq-75M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse globular domain of adiponectin/acrp30 (amino acid residues, 111-247, gAcrp30) was overexpressed in E.coli and purified by using conventional chromatography techniques, 16 kDa (138 aa).
Species	Mouse
Source	E.coli
ProteinLength	111-247 a.a.
Description	Adiponectin/Acrp30 (247amino acids) is adipocyte complement-related protein of 30kDa and exclusively expressed in differentiated adipocytes. Adiponectin (Acrp30) is a member of the complement factor C1q family and consists of signal sequence, Non-homologous sequence, collagen domain and globular domain (gAcrp30). Adiponectin (Acrp30) expression is reduced in a variety of obese and insulin-resistant states in human, monkeys and mice. Injection of Acrp30 (247aa) or gAcrp30 (globular domain) lowers serum glucose and free fatty acid level in mice.
Sequences of amino acids	MAYMYRSAFS VGLETRVTVP NVPIRFTKIF YNQQNHYDGS TGKFYCNIPG LYYFSYHITV YMKDVKVSLF KKDKAVLFTY DQYQEKNVDQ ASGSVLLHLE VGDQVWLQVY GDGDHNGLYA DNVNDSTFTG FLLYHDTN
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 50 mM NaCl, 5 mM DTT, 10% glycerol

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Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	Adipoq adiponectin, C1Q and collagen domain containing [<i>Mus musculus</i>]
Synonyms	ACDC; ACRP30 ; ADIPQTL1; ADPN ; APM-1; APM1; AdipoQ;GBP28; adiponectin; apM-1; apM1; 30 kDa adipocyte complement-related protein; Adipocyte complement-related 30 kDa protein; Adipocyte, C1q and collagen domain-containing protein; Adipose most abundant gene transcript 1 protein; Gelatin-binding protein; adipocyte, C1Q and collagen domain containing; adipocyte, C1Q and collagen domain-containing; adiponectin, C1Q and collagen domain containing; adipose most abundant gene transcript 1; gelatin-binding protein 28; APN; 30kDa; adipo; adipocyte complement related protein; gAcrp30
Gene ID	11450
mRNA Refseq	NM_009605
Protein Refseq	NP_033735
MIM	
UniProt ID	Q60994
Chromosome Location	16 16.0 cM

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

Function hormone activity; protein binding; receptor binding

PDBrendering based
on 1c28. Available
structures:1c28,1c3h

