

Active Recombinant Mouse Adiponectin, C1Q And Collagen Domain Containing, His-tagged

Cat. No. Adipoq-5600M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Adipoq protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Ala111-Asn247 & Tyr112-Asn247.
Species	Mouse
Source	Mammalian Cells
Protein Length	111-247; 112-247 a.a.
Description	Adipoq, alternatively named Adipocyte Complement-Related Protein of 30 kDa (Acrp30), shares structural similarity with complement factor C1q and is a member of the family of defense collagens. It is secreted exclusively by differentiated Adipoq and circulates at high concentrations (in µg/mL range). Adipoq has a modular structure comprising an N-terminal collagenous domain with multiple collagen triple helix repeats, followed by a C-terminal C1q-like globular domain.
Form	Supplied as a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Ala111 & Tyr112
Molecular Weight	16.7 kDa
Activity	Measured by its ability to induce TIMP-1 secretion by mouse macrophages. Kumada, M. et al. (2004) Circulation 109:2046. The ED50 for this effect is typically 5-20 µg/mL.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	19-23kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Adipoq adiponectin, C1Q and collagen domain containing [Mus musculus]
Official Symbol	Adipoq
Synonyms	Adipoq; adiponectin, C1Q and collagen domain containing; APN; Acdc; apM1; 30kDa; GBP28; adipo; Acrp30; adiponectin; adipocyte-specific protein AdipoQ; adipocyte complement-related protein; 30 kDa adipocyte complement-related protein; adipocyte complement-related 30 kDa protein; adipocyte, C1Q and collagen domain containing; adipocyte, C1q and collagen domain-containing protein
Gene ID	11450
mRNA Refseq	NM_009605
Protein Refseq	NP_033735
UniProt ID	Q60994
Chromosome	16 B3-B4; 16 16.0 cM

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Location	
Pathway	Adipocytokinesignaling pathway; Adipogenesis; Leptin and adiponectin; PPAR (Peroxisomeproliferator-activated receptor) signaling pathway; PPAR signaling pathway;Type II diabetes mellitus
Function	adiponectin-mediatedsignaling pathway; brown fat cell differentiation; cellular response to drug;cellular response to insulin stimulus; detection of oxidative stress; fattyacid beta-oxidation; fatty acid oxidation; glucose homeostasis; glucosemetabolic process; low-density lipoprotein particle clearance; membranedepolarization; membrane hyperpolarization; negative regulation of DNAbiosynthetic process; negative regulation of ERK1 and ERK2 cascade; negativeregulation of I-kappaB kinase/NF-kappaB cascade
PDBrendering based on 1c28.	