

Recombinant Mouse Adipoq (Trimer), Flag-tagged

Cat. No. Adipoq-118M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Adipoq (trimer) was produced in HEK293. The cysteine 39 was replaced with alanine (C39A). mAd-C39A can only form trimer, but not hexamer or HMW form.
Species	Mouse
Source	HEK293
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. Many clinical studies demonstrated that plasma adiponectin is a useful biomarker for metabolic syndrome, nonalcoholic steatohepatitis and certain type of cancers. Decreased circulating levels of plasma adiponectin (hypoadiponectinaemia) are associated with increased body mass index (BMI), decreased insulin sensitivity, less favourable plasma lipid profiles, increased levels of inflammatory markers and increased risk for the development of type 2 diabetes, hypertension, and coronary heart diseases.
Amino Acid Sequence	EDDVTTTEEL APALVPPPKG TAAGWMAGIP GHPGHNGTPG RDGRDGPGE KGEKGDAGLL GPKGETGDVG MTGAEGPRGF PGTPGRKGEP GEAYMYRSA

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FSVGLETRVT VPNVPIRFTK IFYNQQNHVD GSTGKFYCN PGLYYFSYHI
TVYMKDVKVS LFKKDKAVLF TYDQYQEKNV DQASGSVLLH LEVGDQVWLQ
VYGDGDHNGI YADNVNDSTF TGFLLYHDTN DYKDDDDK

Form	Filtered (0.22 µm) and lyophilized in 1 mg/mL in PBS.
Purity	>98%.
Applications	Binding assay, ELISA, Ex vivo and in vivo activity analysis, In vitro, Western blotting.
Quality Control Test	BCA to determine quantity of the protein. SDS PAGE to determine purity of the protein.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. 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.

GENE INFORMATION

Gene Name	Adipoq adiponectin, C1Q and collagen domain containing [<i>Mus musculus</i>]
Synonyms	Adipoq; adiponectin, C1Q and collagen domain containing; APN; Acdc; apM1; 30kDa; GBP28; adipo; Acrp30; adiponectin
Gene ID	11450

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mRNA Refseq	NM_009605
Protein Refseq	NP_033735
UniProt ID	Q60994
Chromosome Location	16 16.0 cM
Pathway	Adipocytokine signaling pathway; PPAR signaling pathway; Type II diabetes mellitus
Function	hormone activity; protein binding; receptor binding
PDB rendering based on 1c28.	