

Active Recombinant Mouse Adipoq Protein (227 aa)

Cat. No. Adipoq-443A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Adiponectin (rmAdiponectin) produced in E. coli is a single non-glycosylated polypeptide chain containing 227 amino acids. A fully biologically active molecule, rmAdiponectin has a molecular mass of 24.6 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
ProteinLength	227
Description	Adiponectin is a hormone mainly produced by adipocytes. Adiponectin forms a homotrimer and exists as higher order multimers in vivo. The receptors of Adiponectin are seven-transmembrane G protein coupled receptors: Receptor 1 is expressed in skeletal muscle and Receptor 2 in liver. Adiponectin receives a lot of attention because of its anti-diabetic, anti-atherosclerotic, and anti-inflammatory properties. Adiponectin increases the expression of molecules involved in fatty acid transport, combustion of fatty acid, and energy dissipation, and increases insulin sensitivity of the body. Decreased levels of Adiponectin are associated with hypertension, cardiovascular diseases, and metabolic syndromes. Therefore, Adiponectin has promising potential as a pharmacological agent.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 5

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	μg/mL, measured by a cell growth inhibitory assay using M1 cells, corresponding to a specific activity of $> 2 \times 10^2$ units/mg.
Molecular Mass	24.6 kDa, observed by reducing SDS-PAGE.
AA Sequence	VTTTEELAPALVPPPKGTCAGWMAGIPGHPGHNGTPGRDGRDGTGPGEKGEKGDA GLLGPKGETGDVGMTGAEGPRGFPGTGRKGEPGEAAYVYRSAFSVGLETRVTVP NVPIRFTKIFYNQNHVDGSTGKFYCNIPGLYYFSYHITVYMKDVKVSFLFKDKAVLF TYDQYQEKNVDAQSGSVLLHLEVGQVWLQVYGDGDHNGLYADNVNDSTFTGFL YHDTN
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant mouse Adiponectin (rmAdiponectin) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmAdiponectin remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	Adipoq adiponectin, C1Q and collagen domain containing [<i>Mus musculus</i>]
Official Symbol	Adipoq
Synonyms	ADIPOQ; adiponectin, C1Q and collagen domain containing; adiponectin; adipocyte-specific protein AdipoQ; adipocyte complement related protein; 30 kDa adipocyte

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complement-related protein; adipocyte complement-related 30 kDa protein; adipocyte, C1Q and collagen domain containing; adipocyte, C1q and collagen domain-containing protein; APN; Acdc; apM1; 30kDa; GBP28; adipo; Acrp30;

Gene ID [11450](#)

mRNA Refseq [NM_009605](#)

Protein Refseq [NP_033735](#)

UniProt ID [Q60994](#)

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