

Active Recombinant Mouse Adipoq Protein

Cat. No. Adipoq-7152M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Adipoq protein without tag was expressed in HEK293.
Species	Mouse
Source	HEK293
Description	Important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. May play a role in cell growth, angiogenesis and tissue remodeling by binding and sequestering various growth factors with distinct binding affinities, depending on the type of complex, LMW, MMW or HMW.
Form	Lyophilized (0.4 µm filtered) purified protein
Bio-activity	Full-length adiponectin has been shown to activate AMP-activated protein kinase in hepatocyte. It can also activate AMPK in HepG2 human hepatocytes at the concentration of as low as 1.0 µg/mL. In vitro gluconeogenesis assay in primary rat hepatocytes was performed, showing the murine adiponectin derived from mammalian cells can inhibit glucose production.
AA Sequence	EDDVTTTEELAPALVPPPKGTCAGWMAGIPGHPGHNGTPGRDGRDGTGPGEKGEK

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GDAGLLGPKGETGDVGMTGAEGPRGFPGTPGRKGEPEGAAAYMYRSAFSVGLETR
 VTVPNVPIRFTKIFYNQQNHYDGSTGKFYCNIPGLYYFSYHITVVMKDVKVSFLFKKDK
 AVLFTYDQYQEKNVDQASGSVLLHLEVGDQVWLQVYGDGDHNGLYADNVNDSTFT
 GFLLYHDTNDYKDDDDK

Purity > 98 % as determined by densitometric image analysis

Applications ELISA; WB; Cell culture and/or animal studies.

Stability Shelf life: one year from despatch.

Storage Store lyophilized (preferably in a desiccator) at -20 centigrade and in aliquots at -80 centigrade.
 Reconstituted antibody can be stored at 4 centigrade for a limited period of time; it does not show decline in activity after two weeks at 4 centigrade.
 Avoid repeated freezing and thawing.

Concentration 0.5 mg/mL

Storage Buffer 0.05 M Phosphate buffer, 0.075 M NaCl, pH 7.4

Reconstitution Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.

GENE INFORMATION

Gene Name [Adipoq adiponectin, C1Q and collagen domain containing \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Adipoq](#)

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Synonyms

Adipoq; adiponectin, C1Q and collagen domain containing; a; Ad; ap; APN; Acd; Acr; Acdc; Adid; GBP2; adip; apM1; 30kDa; GBP28; adipo; Acrp30; adiponectin; 30 kDa adipocyte complement-related protein; adipocyte complement related protein; adipocyte complement-related 30 kDa protein; adipocyte, C1Q and collagen domain containing; adipocyte, C1q and collagen domain-containing protein; adipocyte-specific protein AdipoQ; adiponectin d

Gene ID

11450

mRNA Refseq

NM_009605

Protein Refseq

NP_033735

UniProt ID

Q60994

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