Active Recombinant Mouse Adipoq Protein, His-tagged

Cat. No. Adipoq-033M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse adiponectin, C1Q and collagen domain containing (Adipoq) with a N-His tag was expressed in Hi-5 insect.
Species	Mouse
Source	Insect Cells
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.
Bio-activity	Determined by a cytotoxic assay using M1 cells. The ED50 for this effect is 4.0-6.0ug/mL.
Molecular Mass	35 kDa
AA Sequence	RGHHHHHHHHVTTTEELAPALVPPPKGTCAGWMAGIPGHPGHNGTPGRDGRDGT PGEKGEKGDAGLLGPKGETGDVGMTGAEGPRGFPGTPGRKGEPGEAAYVYRSAF SVGLETRVTVPNVPIRFTKIFYNQQNHYDGSTGKFYCNIPGLYYFSYHITVYMKDVKV

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	SLFKKDKAVLFTYDQYQEKNVDQASGSVLLHLEVGDQVWLQVYGDGDHNGLYADN VNDSTFTGFLLYHDTN
Endotoxin	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Purity	>95%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer,100mM NaCl, pH 7.2
Reconstitution	Resuspend the protein in the desired concentration in proper buffer.

GENE INFORMATION

Gene Name	Adipoq adiponectin, C1Q and collagen domain containing [Mus musculus (house mouse)]
Official Symbol	Adipoq
Synonyms	Adipoq; adiponectin, C1Q and collagen domain containing; Ad; APN; Acdc; Adid; 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

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mRNA Refseq	NM_009605
Protein Refseq	NP_033735
UniProt ID	Q60994

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