# Recombinant Mouse Adipoq Protein, His-tagged

**Cat. No.** Adipoq-032M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Purified recombinant protein of Mouse adiponectin, C1Q and collagen domain containing (Adipoq) with a N-His tag was expressed in E.coli. |
| **Species** | Mouse |
| **Source** | E.coli |
| **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. |
| **Molecular Mass** | 27.2 kDa |
| **AA Sequence** | MGSSHHHHHHSSGLVPRGSHMEDDVTTTEELAPALVPPPKGTCAGWMAGIPGHP GHNGTPGRDGRDGTPGEKGEKGDAGLLGPKGETGDVGMTGAEGPRGFPGTPGR KGEPGEAAYVYRSAFSVGLETRVTVPNVPIRFTKIFYNQQNHYDGSTGKFYCNIPGL YYFSYHITVYMKDVKVSLFKKDKAVLFTYDQYQEKNVDQASGSVLLHLEVGDQVWL QVYGDGDHNGLYADNVNDSTFTGFLLYHDTN |

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| **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 PBS,pH 7.4 |
| **Reconstitution** | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## GENE INFORMATION

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| **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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