

# Recombinant Mouse Adipoq Protein, His-tagged

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Purified recombinant protein of Mouse adiponectin, C1Q and collagen domain containing (Adipoq) with a N-His tag was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 27.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MGSSHHHHHSSGLVPRGSHMEDDVTTEELAPALVPPPKGTCAGWMAGIPGHP<br>GHNGTPGRDGRDGTGPGEKGEKGDAGLLGPKGETGDVGMTGAEGPRGFPGTPGR<br>KGEPGEAAYVYRSAFSVGLETRVTPNPVPIRFTKIFYNQNHYDGSTGKFYCNIPGL<br>YYFSYHITVYMKDVKVSLFKKDKAVLFTYDQYQEKNVDAQSGSVLLHLEVG DQVWL<br>QVYGDGDHNGLYADNVNDSTFTGFLLYHDTN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                       |                                                                                                                                                                                                                                                                                |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)                                                                                                                                                                                                                            |
| <b>Purity</b>         | >95%, as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                    |
| <b>Stability</b>      | Stable for at least 6 months from date of receipt under proper storage and handling conditions.                                                                                                                                                                                |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                                                                                                                                                       |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 M filtered solution of PBS,pH 7.4                                                                                                                                                                                                                       |
| <b>Reconstitution</b> | 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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Adipoq adiponectin, C1Q and collagen domain containing [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b> | Adipoq                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 11450                                                                                                                                                                                                                                                                                                                                                                                                                |

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|----------------|-----------|
| mRNA Refseq    | NM_009605 |
| Protein Refseq | NP_033735 |
| UniProt ID     | Q60994    |

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