Human Adiponectin / Acrp30 / ADIPOQ Protein (Fc Tag)

Catalog Number: **10772-H02H**

Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

ADIPOQ, ACDC, ACRP30, APM1, GBP28

Protein Construction:

A DNA sequence encoding the human ADIPOQ (Q15848) (Met1-Asn244) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 80 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Glu 19

Molecular Mass:

The recombinant human ADIPOQ comprises 467 amino acids and has a predicted molecular mass of 51.6 kDa.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

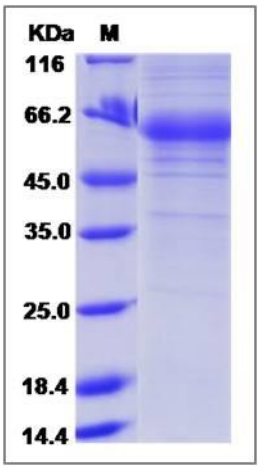
Usage Guide

Storage:

Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Adiponectin (ADIPOQ), also known as Adipocyte, C1q and collagen domain-containing protein, 30 kDa adipocyte complement-related protein, adipocyte complement-related 30 kDa protein, adipose most abundant gene transcript 1 protein, gelatin-binding protein, ADIPOQ and ACDC, is a secreted protein which contains oneC1q domain and onecollagen-like domain. Adiponectin/Acrp30/ADIPOQ is an important adipokine involved in the control of fat metabolism and insulin sensitivity, with direct anti-diabetic, anti-atherogenic and anti-inflammatory activities. Adiponectin/Acrp30/ADIPOQ stimulates AMPK phosphorylation and activation in the liver and the skeletal muscle, enhancing glucose utilization and fatty-acid combustion. Adiponectin/Acrp30/ADIPOQ antagonizes TNF-alpha by negatively regulating its expression in various tissues such as liver and macrophages, and also by counteracting its effects. Adiponectin/Acrp30/ADIPOQ inhibits endothelial NF-kappa-B signaling through a cAMP-dependent pathway. It 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.

References

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2. Saito K. et al., 1999, Gene. 229: 67-73.
3. Yamauchi T. et al., 2001, Nat Med. 7: 941-6.
4. Zhang Z. et al., 2004, Protein Sci. 13: 2819-24.
5. Takahashi M. et al., 2000, Int J Obes Relat Metab Disord. 24: 861-8.