Recombinant mouse Adiponectin/Acrp30 protein

Catalog Number: ADI0702

PRODUCT INFORMATION

Expression system
E.coli

Domain
18-247aa

UniProt No.
Q60994

NCBI Accession No.
NP_033735

Alternative Names
ADIPOQ, Acdc, Acrp30, Apm1, 30 kDa adipocyte complement-related protein, Adipocyte complement-related 30 kDa protein, Adipocyte C1q and collagen domain-containing protein, Adipocyte-specific protein

PRODUCT SPECIFICATION

Molecular Weight
27.2 kDa (251aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Adiponectin is an adipocyte specific secreted protein that circulates in the plasma. It is induced during adipocyte differentiation and its secretion is stimulated by insulin. Mouse adiponectin shares about 83% amino acid identity with that human. Adiponectin plays a role in various physiological processes such as energy

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homeostasis and obesity. Adiponectin is reduced in obese humans, and decreased level is associated with insulin resistance and hyperinsulinemia. Recombinant mouse adiponectin, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

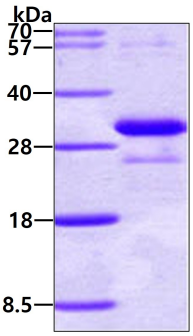
<MGSSHHHHHH SSGLVPRGSH M>EDDVTTTEE LAPALVPPPK GTCAGWMAGI PGHPGHNGTP GRDGRDGTPG EKGEKGDAGL LGPKGETGDV GMTGAEGPRG FPGTPGRKGE PGEAAYVYRS AFSVGLETRV TVPNVPIRFT KIFYNQQNHY DGSTGKFYCN IPGLYYFSYH ITVYMKDVKV SLFKKDKAVL FTYDQYQEKN VDQASGSVLL HLEVGDQVWL QVYGDGDHNG LYADNVNDST FTGFLLYHDT N

General References

Yokota. T. et al. (2000) Blood. 96:1723
Yamauchi T. et al (2002) Nature Medicine.8(11):1288-1295
Lu M. et al (2007) Mol Endocrinol. 59(2):207-16

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.