Recombinant mouse Adiponectin (globular domain) protein

Catalog Number: ADI3001

PRODUCT INFORMATION

Expression system
E.coli

Domain
111-247aa

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
16 kDa (138aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 50mM NaCl, 5mM DTT, 10% glycerol

Purity
> 95% by SDS-PAGE

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

Tag
Non-Tagged

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/Acrp30 (247amino acids) is adipocyte complement-related protein of 30kDa and exclusively expressed in differentiated adipocytes. Adiponectin (Acrp30) is a member of the complement factor C1q family and consists of signal sequence, Non-homologous sequence, collagen domain and globular domain (gAcrp30).

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Adiponectin (Acrp30) expression is reduced in a variety of obese and insulin-resistant states in human, monkeys and mice. Injection of Acrp30 (247aa) or gAcrp30 (globular domain) lowers serum glucose and free fatty acid level in mice. The globular domain of adiponectin/acrp30 (amino acid residues, 111-247, gAcrp30) was overexpressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

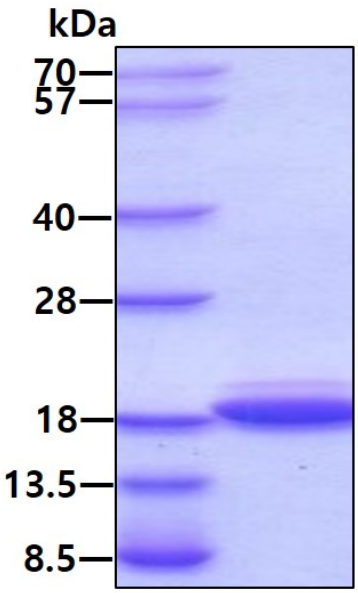
MAYMYRSAFS VGLETRVTVP NVPIRFTKIF YNQQNHYDGS TGKFYCNIPG LYYFSYHITV YMKDVKVSLF KKDKAVLFTY DQYQEKNVDQ ASGSVLLHLE VGDQVWLQVY GDGDHNGLYA DNVNDSTFTG FLLYHDTN

General References

Joachim Fruebis, et al(2001) PNAS 98(4) 2005-2010
Das,K., et al(2001) Biochem. Biophys.Res.Commun. 280(4)1120-1129
Yamauchi T., et al(2001) Nature Medicine 7(8) 941-946
Berg AH, et al(2001) Nature Medicine 7(8) 947-952
Yamauchi. T., et al(2002) Nature Medicine 8(11) 1288-1295

DATA

SDS-PAGE



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