

Recombinant human Complement Factor D protein

Catalog Number: ATGP3098

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

21-253aa

UniProt No.

P00746

NCBI Accession No.

NP_001919.2

Alternative Names

Complement factor D preproprotein, ADIPSIN, ADN, DF, PFD

PRODUCT SPECIFICATION

Molecular Weight

26.01 kDa (241aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 95% 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

CFD, also known as Complement factor D preproprotein, is a serine protease that stimulates glucose transport for triglyceride accumulation in fats cells and inhibits lipolysis. There are two antiparallel beta-barrel domains with each barrel containing six beta-strands with the same typology in all enzymes. The major difference in backbone structure between Factor D and the other serine proteases of the chymotrypsin family is in the surface

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loops connecting the secondary structural elements. Factor D displays different conformations of major catalytic and substrate-binding residues typically found in the chrotrypsin family. Recombinant human CFD, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

PPRGRILGGR EAEAHARPYM ASVQLNGAHL CGGVLVAEQW VLSAAHCLED AADGKVQVLL GAHSLSQPEP SKRLYDVLRA
VPHPDSQPDT IDHDL LLLQL SEKATLGPAV RPLPWQRVDR DVAPGTLCDV AGWGIVNHAG RRPDSLQHV L LPVLDRATCN
RRTHHDGAIT ERLMCAESNR RDSCKGDSGG PLVCGGVLEG VVTSGSRVCG NRKKPGIYTR VASYAAWIDS
VLA<VEHHHHH H>

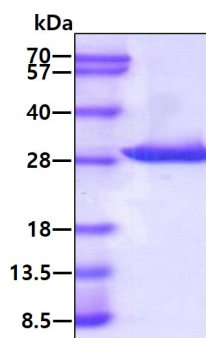
General References

Ronti T. et al. (2006) Clin. Endocrinol. 64(4):355-65.

Volanakis JE. et al. (1996). Protein Sci. 5(4):553-64.

DATA

SDS-PAGE



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