

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 VLAAHCLD AADGKVQVLL GAHSLSQPEP SKRLYDVLRA
VPHPDSQPDT IDHDLALLQL SEKATLGPAV RPLWQVRVDR DVAPGTLCDV AGWGIVNHAG RRPDSLQHV L LPVLD RATCN
RRTHHDGAIT ERLMCAESNR RDSCKGDSGG PLVCGGVLEG VVTSGSRVCG NRKKPGIYTR VASYAAWIDS
VLA<VEHHHHH H>

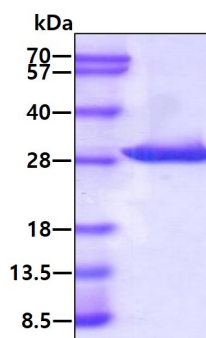
General References

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.