

Recombinant Human CFD, His-tagged

Cat. No. CFD-78H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CFD, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
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 loops connecting the secondary structural elements. Factor D displays different conformations of major catalytic and substrate-binding residues typically found in the chymotrypsin family.
Form	Liquid. In phosphate buffered saline (pH7.4).
Molecular Mass	26.01kDa (241aa) confirmed by MALDI-TOF28-40kDa (SDS-PAGE under reducing conditions.)
AA Sequence	PPRGRILGGR EAEAHARPYM ASVQLNGAHL CGGVLVAEQW VLAAHCLD AADGKVQVLL GAHSLSQPEP SKRLYDVLRA VPHPDSQPD IDHDLILLQL SEKATLGPAV RPLPWQRVDR DVAPGTLCDV AGWGIVNHAG RRPDSLQHV LPVLDRATCN RRTHHDGAIT ERLMCAESNR RDSCKGDSGG PLVCGGVLEG

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VVTSGSRVCG NRKKPGIYTR VASYAAWIDS VLAVEHHHHH H

Endotoxin < 1.0 eu per 1 microgram of protein (determined by lal)

Purity >95% by SDS - PAGE.

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CFD complement factor D (adipsin) [Homo sapiens]

Official Symbol CFD

Synonyms CFD; complement factor D (adipsin); D component of complement (adipsin) , DF, PFD, properdin factor D; complement factor D; ADN; properdin factor D; C3 convertase activator; complement factor D preproprotein; D component of complement (adipsin); DF; PFD; ADIPSIN;

Gene ID 1675

mRNA Refseq NM_001928

Protein Refseq NP_001919

MIM 134350

UniProt ID P00746

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Chromosome Location	19p13.3
Pathway	Adipogenesis, organism-specific biosystem; Alternative complement activation, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; Hemostasis, organism-specific biosystem; Immune System, organism-specific biosystem;
Function	peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity;

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