

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606

techsupport@origene.com

OriGene Technologies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

AR51918PU-S Human Complement factor D (21-253, His-tag) - Purified

Alternate names: Adipsin, C3 convertase activator, CFD, DF, PFD, Properdin factor D

Quantity: 50 μg

Concentration: 1.0 mg/ml (determined by bradford assay)

Background: 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 chymotrpsin 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 chrotrypsin family.

 Uniprot ID:
 P00746

 NCBI:
 NP 001919

GeneID: <u>1675</u>
Species: Human

Format: State: Liquid purified protein

Purity: >95% by SDS - PAGE.

Buffer System: Phosphate buffered saline (pH7.4).

Endotoxin Level: < 1.0 Eu per 1 microgram of protein (determined by LAL method)

Description: Recombinant human CFD, fused to His-tag at C-terminus, was expressed in insect cell

and purified by using conventional chromatography techniques.

AA Sequence:

PPRGRILGGR EAEAHARPYM ASVQLNGAHL CGGVLVAEQW VLSAAHCLED AADGKVQVLL GAHSLSQPEP SKRLYDVLRA VPHPDSQPDT IDHDLLLLQL SEKATLGPAV RPLPWQRVDR DVAPGTLCDV AGWGIVNHAG RRPDSLQHVL LPVLDRATCN RRTHHDGAIT ERLMCAESNR RDSCKGDSGG PLVCGGVLEG VVTSGSRVCG NRKKPGIYTR VASYAAWIDS VLAVEHHHHH H

Molecular weight: 26.01 kDa (241aa) confirmed by MALDI-TOF

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

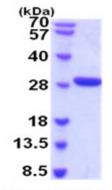
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: Ronti T. et al. (2006) Clin. Endocrinol. 64(4):355-65. Volanakis JE. et al. (1996). Protein

Sci. 5(4):553-64.



Pictures:



15% SDS-PAGE (3ug)