

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 fat 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.

Uniprot ID:[P00746](#)**NCBI:**[NP_001919](#)**GeneID:**[1675](#)**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 VLAAHCLD AADGKQVLL
GAHSLSQPEP SKRLYDVLRA VPHPDSQPDT IDHDLQLLQL SEKATLGPAV RLPWQRVDR
DVAPGTLCDV AGWGIVNHAG RRPDSLQHVLPVLDRATCN RRTHHDGAIT ERLMCAESNR
RDSCKGDSGG PLVCGGVLEG VVTSGSRVCG NRKKPGIYTR VASYAAWIDS VLAVEHHHHH H

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

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:

