

CFD, 21-253aa, Human, His tag, Insect cell

Cat.NO.: TP01591

3th Edition

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

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 chotrypsin family. Recombinant human CFD, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In phosphate buffered saline (pH7.4).

Molecular Weight: 26.01kDa (241aa) confirmed by MALDI-TOF 28-40kDa (SDS-PAGE under reducing conditions.)

Sequences:

PPRGRILGGREAEAHARPYMASVQLNGAHLCCGGVLVAEQWVLSAAHCLEDAADGKVQVLLGAHSLSQPEPSKRL
YDVLRAVPHPDSPDTIDHDLQLSEKATLGPAVRPLPWQRVDRDVPAGTLCDVAGWGIVNHAGRRPDSLQHV
LLPVLDRATCNRRTHHDGAITERLMCAESNRRDSCKGDSGGPLVCGGVLEGVVTSGSRVCGNRKKPGIYTRVAS
AAWIDSVLAVEHHHHHH

Purity: > 95% by HPLC

Concentration: 1mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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