

# Recombinant human Complement Factor D protein

Catalog Number: ATGP1877

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

26-253aa

**UniProt No.**

P00746

**NCBI Accession No.**

NP\_001919

**Alternative Names**

Complement factor D, DF, AND, PFD, ADIPSIN

## PRODUCT SPECIFICATION

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**Molecular Weight**

26.6 kDa (249aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

**Purity**

> 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**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

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**Description**

CFD, also known as adipsin, is involved in the alternative complement pathway of the complement system where it cleaves factor B. This protein is a member of the trypsin family of peptidases. It is a component of the alternative complement pathway best known for its role in humoral suppression of infectious agents. It is also a serine protease that is secreted by adipocytes into the bloodstream. Finally, it has a high level of expression in fat, suggesting a role for adipose tissue in immune system biology. Recombinant human CFD protein, fused to His-tag at N-terminus, was expressed in E. coli.

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### Amino acid Sequence

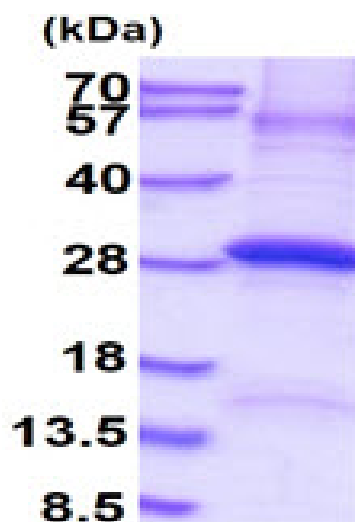
MGSSHHHHHH SSGLVPRGSH MILGGREAEA HARPYMASVQ LNGAHLCCGV LVAEQWVLSA AHCLEDAADG  
KVQVLLGAHS LSQPEPSKRL YDVLRAVPHD DSQPDITDHD LLLLQLSEKA TLGPAVRPLP WQRVDRDVAP GTLCDVAGWG  
IVNHAGRRPD SLQHVLLPVL DRATCNRRTH HDGAITERLM CAESNRRDSC KGDSGGPLVC GGVLEGVVTG GSRVCGNRKK  
PGIYTRVASY AAWIDSVLA

### General References

Narayana SV. et al. (1994) J Mol Biol. 235:695-708.  
Ronti T. et al. (2006) Clin Endocrinol (Oxf). 64:355-365.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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15% SDS-PAGE (3ug)