

## Product datasheet for **AR50701PU-S**

### Complement factor D (26-253, His-tag) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Complement factor D (26-253, His-tag) human recombinant protein, 0.1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSGLVPRGSH MILGGREAEA HARPYMASVQ LNGAHLCCGGV LVAEQWVLSA AHCLEDAADG KVQVLLGAHS LSQPEPSKRL YDVLRAVPHD DSQPDTIDHD LLLLQLSEKA TLGPAVRPLP WQRVDRDVAP GTLCDVAGWG IVNHAGRRPD SLQHVLLPVL DRATCNRRTH HDGAITERLM CAESNRRDSC KGDSGGPLVC GGVLEGWTS GSRVCGNRKK PGIYTRVASY AAWIDSVLA
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	26.6 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>85% by SDS - PAGE
<b>Buffer:</b>	Presentation State: This purified protein is available in a denatured form, making it less suitable for functional studies. Denatured proteins are better suited for applications like Western Blot (WB) or imaging assays. State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M Urea
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human CFD protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Storage:</b>	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.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001304264</a>
<b>Locus ID:</b>	1675
<b>UniProt ID:</b>	<a href="#">P00746</a>
<b>Cytogenetics:</b>	19p13.3
<b>Synonyms:</b>	Properdin factor D, Adipsin, CFD, DF, PFD



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**Summary:**

This gene encodes a member of the S1, or chymotrypsin, family of serine peptidases. This protease catalyzes the cleavage of factor B, the rate-limiting step of the alternative pathway of complement activation. This protein also functions as an adipokine, a cell signaling protein secreted by adipocytes, which regulates insulin secretion in mice. Mutations in this gene underlie complement factor D deficiency, which is associated with recurrent bacterial meningitis infections in human patients. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature protease. [provided by RefSeq, Nov 2015]

**Protein Families:**

Druggable Genome, Protease, Secreted Protein

**Protein Pathways:**

Complement and coagulation cascades

**Product images:**