

# Recombinant Human CFD Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CFD-3070H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CFD MS Standard C13 and N15-labeled recombinant protein (NP_001919) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 27 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | <p>MHSWERLAVLVLLGAAACAAPPRGRILGGREAEAHARPYMASVQLNGAHLCCGGVL<br/>         VAEQWVLSAAHCLEDAADGKVQVLLGAHSLSQPEPSKRLYDVLRAVPHPDSPDPTI<br/>         DHDLLLLQLSEKATLGPAVRPLPWQRVDRDVAPGTLCDVAGWGIVNHAGRRPDSL<br/>         QHVLLPVLDRA TCNRRTHHDGAITERLMCAESNRRDSCKGDSGGPLVCGGVLEGV</p>                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
|                       | VTSGSRVCGNRKKPGIYTRVASYAAWIDSVLATRTRPLEQKLISEEDLAANDILDYKD<br>DDDKV                        |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CFD complement factor D [ Homo sapiens (human) ]                                                                                                                                                                                                                       |
| <b>Official Symbol</b> | CFD                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | CFD; complement factor D (adipsin); D component of complement (adipsin), DF, PFD, properdin factor D; complement factor D; ADN; properdin factor D; C3 convertase activator; complement factor D preproprotein; D component of complement (adipsin); DF; PFD; ADIPSIN; |
| <b>Gene ID</b>         | 1675                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_001928                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_001919                                                                                                                                                                                                                                                              |

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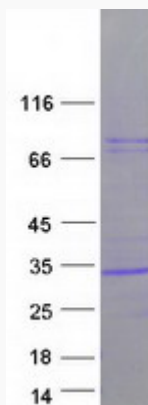
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MIM 134350

UniProt ID P00746

SDS-PAGE



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