

HUMAN CFD PROTEIN, HFC TAG

Cat.#: 11970

Product Name: Human CFD Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: ADIPSIN;ADN;DF;PFD

Target: CFD

UNIPROT ID: P00746

Description: Recombinant Human CFD Protein with C-terminal human Fc tag

Background: 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]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 50.5 kDa after removal of the signal peptide. The apparent molecular mass of CFD-hFc is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: CFD(Ile26-Ala253) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Human CFD Protein, hFc Tag on SDS-PAGE under reducing condition.