

Recombinant human complement factor D



Catalog UCD002
Lot 531
0.1 mg/vial

Product description

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.

Reference sequences: NM_001928
 NP_001919
 Swiss-prot P00746

Alternative names: D component of complement
 adipsin
 properdin factor D
 C3 convertase activator

EC_number: 3.4.21.46

Gene ID: 1675

Residues 26-253 of human Complement factor D were cloned, the protein was over-expressed in HEK293EBNA1 cells and was purified to homogeneity. The calculated molecular weight of recombinant human complement factor D is 24.7 kDa. Each vial contains 100 µg complement factor D at 4.49 mg/ml.

Sequence

miparfagvllalalilpgtgsilggreaeaharpymasvqlngahlcggvlvaeqwvlssaahcleadaadgkvqvllgahslsqpepskrlydvlra
vphpdsqpdtdidhllllqksekatlgpavrplpwqrdrvdvapgltcdvagwgivnhagrrpdsdqhvlpvlratcnnrrthdgaierlmca
esnrrdsckgdsggplvcggvlegvvtsgsrvcgnrkkpgiytrvasyaawidsvlaaa*

Storage and stability

Recombinant complement factor D should be stored at - 80 °C (stable for at least 1 year). The protein is stored in 25 mM tris 150 mM NaCl pH 7.5. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

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