

Recombinant Human Complement Factor D/Adipsin (C-10His)

Catalog No: CP27

Description	Recombinant Human Complement factor D is produced by our Mammalian expression system and the target gene encoding Ile26-Ala253 is expressed with a 10His tag at the C-terminus.
Source	Human Cells
Alternative name	Complement factor D, CFD, Adipsin, C3 convertase activator, Properdin factor D, DF, PFD
Accession No.	P00746
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH7.5
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Amino Acid Sequence	ILGGREAEAHARPYMASVQLNGAHLCCGGVLVAEQWVLSAAHCLEDAADGKVQVLLGAHSLSQPEPSK RLYDVLRAVPHPDSPDIDHDLQLSEKATLGPAVRPLPWQRVDRDVAPGTLCDVAGWGIVNHAG RRPDSLQHVLLPVLDLRATCNRRTHHDGAITERLMCAESNRRDSCKGDSGGPLVCGGVLEGVVTSGSR VCGNRKKPGIYTRVASAAWIDSVLAHHHHHHHHHH
Background	Complement factor D, also known as adipsin, is a member of the chymotrypsin family of serine proteases, which plays an essential role in host defense as the rate-limiting enzyme in the alternative pathway of complement activation. Complement factor D activates a convertase (C3bBb) responsible for cleavage of the complement protein C3, which leads to the activation of terminal complement component C5-9 to form the membrane attack complex on microbial or cellular surfaces. It also functions in the regulation of systemic energy balance and physiologic and pathologic processes, including immunity and inflammation.

SDS-PAGE

