

Complement Factor D/Adipsin Protein, Human (HEK293, Fc)

Cat. No.:	HY-P78545
Synonyms:	Adipsin; C3 convertase activator; Complement factor D; CFD; PFD; DF; ADN; FACTOR D; AMBP-1; EC 3.4.21; EC 3.4.21.46
Species:	Human
Source:	HEK293
Accession:	P00746 (I26-A253)
Gene ID:	1675
Molecular Weight:	52-60 kDa

PROPERTIES

Biological Activity	Immobilized Human Complement Factor D, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-Complement Factor D Antibody, hFc Tag with the EC ₅₀ of 33.5ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Complement Factor D, also known as Adipsin, is a crucial component in the alternate pathway of the complement system. Functioning analogously to C1s in the classical pathway, Factor D plays a pivotal role in the activation of the C3 convertase. Specifically, Factor D cleaves Factor B when the latter is complexed with Factor C3b. This enzymatic activity leads to the generation of the active C3bbb complex, which serves as the C3 convertase in the alternate pathway. The homologous function of Factor D to C1s underscores its significance in initiating the complement cascade, highlighting its role in immune responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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