

Complement Factor D/Adipsin Protein, Rat (P.pastoris, His)

Cat. No.:	HY-P71726
Synonyms:	Cfd; Adn; Df; Complement factor D; EC 3.4.21.46; Adipsin; C3 convertase activator; Endogenous vascular elastase; Properdin factor D
Species:	Rat
Source:	P. pastoris
Accession:	P32038 (I26-A263)
Gene ID:	54249
Molecular Weight:	Approximately 43 kDa. The reducing (R) protein migrates as 43 kDa in SDS-PAGE may be due to glycosylation.

PROPERTIES

AA Sequence	<pre> I L G G Q E A M A H A R P Y M A S V Q V N G T H V C G G T L V D E Q W V L S A A H C M D G V T K D E V V Q V L L G A H S L S S P E P Y K H L Y D V Q S V V L H P G S R P D S V E D D L M L F K L S H N A S L G P H V R P L P L Q R E D R E V K P G T L C D V A G W G V V T H A G R R P D V L Q Q L T V S I M D R N T C N L R T Y H D G A I T K N M M C A E S N R R D T C R G D S G G P L V C G D A V E A V V T W G S R V C G N R R K P G V F T R V A T Y V P W I E N V L S G N V S V N V T A </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4
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/Adipsin Protein performs a crucial role by cleaving factor B when it is in complex with factor C3b. This cleavage triggers the activation of the C3bbb complex, subsequently forming the C3 convertase of the alternate pathway. Importantly, its function is analogous to that of C1s in the classical pathway.
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Caution: Product has not been fully validated for medical applications. For research use only.

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