

## Complement Factor D/Adipsin Protein, Human (HEK293, His, Solution)

<b>Cat. No.:</b>	HY-P7861A
<b>Synonyms:</b>	rHuComplement Factor D/Adipsin, His; Complement factor D; CFD; Adipsin; C3 convertase activator; Properdin factor D; DF; PFD
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P00746 (I26-A253)
<b>Gene ID:</b>	1675
<b>Molecular Weight:</b>	Approximately 28.0 kDa

### PROPERTIES

#### AA Sequence

I L G G R E A E A H  
 A R P Y M A S V Q L  
 N G A H L C G G V L  
 V A E Q W V L S A A  
 H C L E D A A D G K  
 V Q V L L G A H S L  
 S Q P E P S K R L Y  
 D V L R A V P H P D  
 S Q P D T I D H D L  
 L L L Q L S E K A T  
 L G P A V R P L P W  
 Q R V D R D V A P G  
 T L C D V A G W G I  
 V N H A G R R P D S  
 L Q H V L L P V L D  
 R A T C N R R T H H  
 D G A I T E R L M C  
 A E S N R R D S C K  
 G D S G G P L V C G  
 G V L E G V V T S G  
 S R V C G N R K K P  
 G I Y T R V A S Y A  
 A W I D S V L A

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** N/A.

**Storage & Stability**

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

**Shipping**

Shipping with dry ice.

**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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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