## Rhesus macaque Complement Factor D / CFD Protein, Fc Tag

Catalog # CFD-R5255



#### Synonym

CFD, Adipsin, PFD, DF, Complement factor D

#### Source

Rhesus macaque Complement Factor D, Fc Tag (CFD-R5255) is expressed from human 293 cells (HEK293) and inactive. It contains AA Ile 26 - Ala 253 (Accession # H9EXC1-1).

Predicted N-terminus: Ile 26

### **Molecular Characterization**

CFD(Ile 26 - Ala 253) Fc(Pro 100 - Lys 330)
H9EXC1-1 P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 51.0 kDa. The protein migrates as 53 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### **Endotoxin**

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

#### **Formulation**

Lyophilized from 0.22 µm filtered solution in

Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

#### Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

### **Storage**

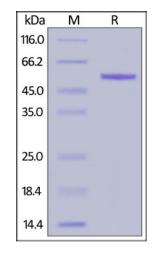
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### **SDS-PAGE**



Rhesus macaque Complement Factor D, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## Background

Complement factor D (CFD) is also known as Adipsin, C3 convertase activator, Properdin factor D (PFD), which contains one peptidase S1 domain and belongs to the peptidase S1 family. CFD / Adipsin cleaves factor B when the latter is complexed with factor C3b, activating the C3bbb complex, which then becomes the C3 convertase of the alternate pathway. CFD / Adipsin is a serine protease that stimulates glucose transport for triglyceride accumulation in fats cells and inhibits lipolysis. Defects in CFD / Adipsin are the cause of complement factor D deficiency which predisposes to invasive meningococcal disease.

## References

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- (1) White R.T., et al., 1992, J. Biol. Chem. 267:9210-9213.
- (2) Johnson D.M.A., et al., 1984, FEBS Lett. 166:347-351.
- (3) <u>Sprong T., et al., 2006, Blood 107:4865-4870.</u>

Please contact us via <u>TechSupport@acrobiosystems.com</u> if you have any question on this product.