

Mouse Adipsin / Complement Factor D / CFD Protein (His Tag)

Catalog Number: 50539-M08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

Adn; DF

Protein Construction:

A DNA sequence encoding the full length of mouse CFD isoform 2 (P03953-2) (Met 1-Ser 258) was expressed, with a polyhistidine tag at the C-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 98 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gln 20

Molecular Mass:

The recombinant mouse CFD consists of 249 amino acids and has a predicted molecular mass of 27.4 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm CFD is approximately 40-45 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

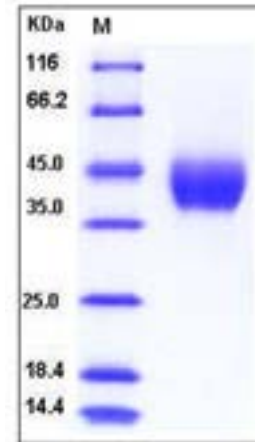
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Complement factor D, also known as Adipsin, C3 convertase activator, Properdin factor D and CFD is a secreted protein which belongs to the peptidase S1 family. CFD / Adipsin contains one peptidase S1 domain. Complement factor D (CFD / Adipsin) is a component of the alternative complement pathway best known for its role in humoral suppression of infectious agents. Complement factor D (CFD / Adipsin) has a high level of expression in fat, suggesting a role for adipose tissue in immune system biology. This protein is also a serine protease that is secreted by adipocytes into the bloodstream. Complement factor D (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. Its function is homologous to that of C1s in the classical pathway. Complement factor D (CFD / Adipsin) is a serine protease that stimulates glucose transport for triglyceride accumulation in fat cells and inhibits lipolysis. Defects in CFD / Adipsin are the cause of complement factor D deficiency (CFD deficiency) which predisposes to invasive meningococcal disease.

References

1. Volanakis JE, et al., 1996, Protein Sci. 5 (4): 553-64.
2. Searfoss, G.H et al., 2003, J Biol Chem. 278 (46):46107-16.
3. Ukkola, O. et al., 2003, Eur J Clin Nutr. 57 (9):1073-8.

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