

Recombinant Human Complement factor D protein (His Tag)

Catalog Number: Eg1189

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human Complement factor D protein Ile26-Ala253 (Accession# P00746) with a His tag at the C-terminus.

GeneID:

1675

Accession:

P00746

Predicted Molecular Mass:

25.5 kDa

SDS-PAGE:

23-26 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Complement Factor D, also known as CFD or adipsin, is a serine protease. Unlike most proteins of the complement system, which are synthesized by the liver and immune cells, factor D is predominantly produced by and secreted into the bloodstream by adipocytes. However, it is also synthesized by macrophages and monocytes, as well as by brain astrocytes to a lesser extent. factor D plays a role in adipose tissue. Adipocytes are energy reservoirs that play an important role in energy balance. Not only are they responsible for lipolysis but they are also involved in glucose uptake and triglyceride synthesis.

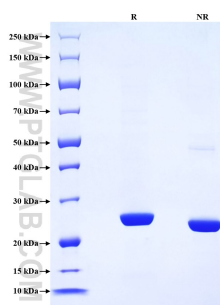
References

1. Jonathan Barratt. et al. (2021). Front Immunol. 12:712572.
2. White RT. et al.(1992). J Biol Chem. 267(13):9210–9213.
3. Choy LN. et al. (1992). J Biol Chem. 267(18):12736–12741.
4. Song N-J. et al. (2016). PloS One.11(9):e0162228.

Synonyms

CFD, ADIPSIN, C3 convertase activator, complement factor D (adipsin), DF

Selected Validation Data



Purity of Recombinant Human Complement factor D was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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