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Datasheet for ABIN7519903 Adipsin Protein (His tag)

Overview

Quantity:	20 µg
Target:	Adipsin (CFD)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Adipsin protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Complement factor D/CFD Protein
Sequence:	ILGGREAEAH ARPYMASVQL NGAHLCGGVL VAEQWVLSAA HCLEDAADGK VQVLLGAHSL SQPEPSKRLY DVLRAVPHPD SQPDTIDHDL LLLQLSEKAT LGPAVRPLPW QRVDRDVAPG TLCDVAGWGI VNHAGRRPDS LQHVLLPVLD RATCNRRTHH DGAITERLMC AESNRRDSCK GDSGGPLVCG GVLEGVVTSG SRVCGNRKKP GIYTRVASYA AWIDSVLA
Specificity:	Ile26-Ala253
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg
Biological Activity Comment:	Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is >452.49 pmol/min/µg.

Target Details

Target:	Adipsin (CFD)
Alternative Name:	Complement factor D/CFD (CFD Products)
Background:	<p>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 C3b 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.</p> <p>Name: CFD,ADIPSIN,ADN,DF,PFD</p>
Gene ID:	1675
UniProt:	P00746
Pathways:	Complement System

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein

solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.