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Datasheet for ABIN7519663

Afamin Protein (AFM) (His tag)

Overview

Quantity:	10 µg
Target:	Afamin (AFM)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Afamin protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Afamin/AFM Protein
Sequence:	<p>MKLLKLTGFI FFLFFLTESL TLPTQPRDIE NFNSTQKFIE DNIEYITIIA FAQYVQEATF EEMEKLVKDM VEYKDRCMAD KTLPECSKLP NNVLQEKICA MEGLPQKHNF SHCCSKVDAQ RRLCFFYNKK SDVGFLPPFP TLDPEEKCA YESNRESLLN HFLYEVARRN PFVFAPTLLT VAVHFEEVAK SCCEEQNKVN CLQTRAIPVT QYLKAFSSYQ KHVCGALLKF GTKVWHFIYI AILSQKFPKI EFKELISLVE DVSSNYDGCC EGDVVQCIRD TSKVMNHICS KQDSISSKIK ECCEKKIPER GQCIINSNKD DRPKDLSLRE GKFTDSENV C QERDADPDTF FAKFTFEYSR RHPDLSIPEL LRIVQIYKDL LRNCCNTENP PGCYRYAEDK FNETTEKSLK MVQQECKHFQ NLGKDGLKYH YLIRLTKIAP QLSTEELVSL GEKMTAFTT CCTLSEEFAC VDNLADLVFG ELCGVNENRT INPAVDHCK TNFAFRRPCF ESLKADKTYV PPPFSQDLFT FHADMCQSQN EELQRKTD RF LVNLVCLKHE LTDEELQSLF TNFANVVDKC CKAESPEVCF NEESPKIGN</p>
Specificity:	Met1-Asn599
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level: <0.1EU/μg

Target Details

Target: Afamin (AFM)

Alternative Name: Afamin/AFM ([AFM Products](#))

Background: Description: Afamin is an 87 kDa glycoprotein with five predicted N-glycosylation sites. Afamin's glycan abundance contributes to conformational and chemical inhomogeneity presenting great challenges for molecular structure determination. Afamin, a human plasma glycoprotein and putative transporter of hydrophobic molecules, has been shown to act as extracellular chaperone for poorly soluble, acylated Wnt proteins, forming a stable, soluble complex with functioning Wnt proteins. The 2.1-Å crystal structure of glycosylated human afamin reveals an almost exclusively hydrophobic binding cleft capable of harboring large hydrophobic moieties. Afamin plays a role in anti-apoptotic cellular processes related to oxidative stress and is associated with insulin resistance and other features of metabolic syndrome. Afamin may serve as a new early biomarker for pathological glucose metabolism during pregnancy. And first trimester screening for pre-eclampsia could be provided by a combination of afamin and placental bed vascularization. Moreover, the combination of first trimester serum afamin levels with BMI could provide a possible screening for gestational diabetes mellitus.

Name: ALF, ALB2, ALBA,AFM

Gene ID: 173

UniProt: [P43652](#)

Application Details

Restrictions: For Research Use only

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 free-thaw cycles.

Buffer: Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Handling

Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.