

Afamin (AFM) Active Protein | AFM active protein

Active Afamin (AFM)

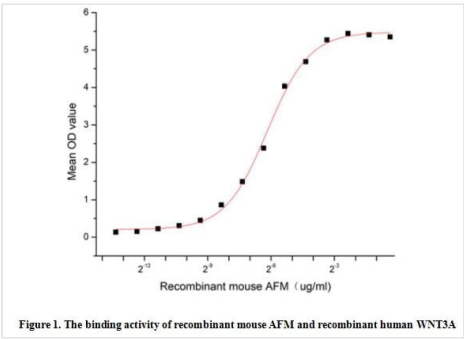
CATALOG # AAA161881	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Afamin (AFM); Active Afamin (AFM); Afamin; ALB2; ALBA; ALF; A-ALB; Alpha-Albumin4; AFM active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Thr210~Glu 403
Applicable Applications for AFM active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.2
Research Area	Tumor immunity, Infection immunity, Hepatology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

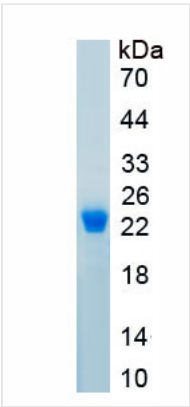


Bioactivity

Afamin (AFM, also known as Alpha -Albumin), a bioactive protein, is expressed in the liver and secreted into the bloodstream. Human afamin is a 87 kDa protein which is encoded by the fourth member of the human albumin gene family. Mouse AFM shares 66% aa sequence identity with Full-length human AFM. This protein can bind and transport vitamin E across the blood-brain barrier in body fluids under conditions where the lipoprotein system is not sufficient, it also can act as a carrier for hydrophobic molecules in body fluids. Essential for the solubility and activity of lipidated Wnt family members. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse AFM and recombinant human WNT3A. Briefly, AFM was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to WNT3A-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-AFM pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse AFM and recombinant human WNT3A was shown in Figure 1, the EC50 for this effect is 0.01 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for AFM active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	125347464
NCBI GeneID	280662
NCBI Accession #	NP_660128.2
NCBI GenBank Nucleotide #	NM_145146.2
UniProt Accession #	O89020; Q3UNV0; Q497E6; Q8R0J9
Molecular Weight	69,666 Da
NCBI Official Full Name	afamin
NCBI Official Synonym Full Names	afamin
NCBI Official Symbol	Afm
NCBI Official Synonym Symbols	Alf; alpha-Alb
NCBI Protein Information	afamin
UniProt Protein Name	Afamin
UniProt Gene Name	Afm
UniProt Synonym Gene Names	Alpha-Alb

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-active-protein/afamin-afm/161881>