

## Afamin (AFM) Active Protein | AFM active protein

Active Afamin (AFM)

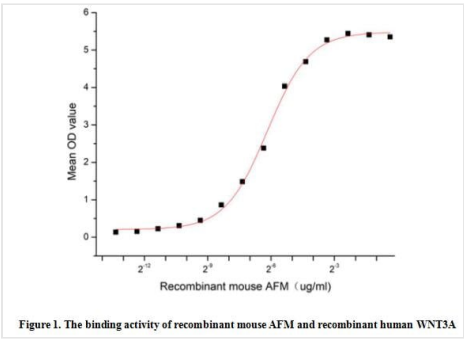
|                               |                       |                                                     |
|-------------------------------|-----------------------|-----------------------------------------------------|
| CATALOG #<br><b>AAA161881</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>Activity Assay, Cell Culture</b> |
|-------------------------------|-----------------------|-----------------------------------------------------|

### 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                              |

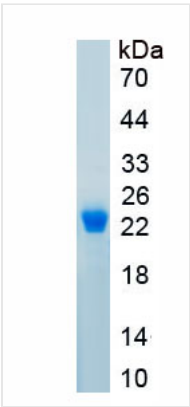


Bioactivity

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 |
|--------------------------------------------------|-----------------|

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://stage.aaabiotech.com/e-coli-active-protein/afamin-afm/161881>