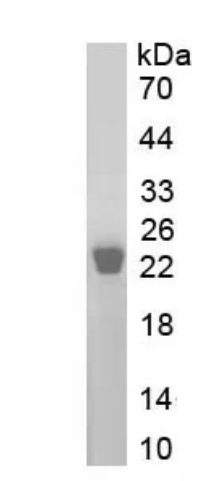
Active Afamin (AFM)

Catalog#:PEM12832

概述（Summary）

别称（Alternative Names）	ALB2; ALBA; ALF; A-ALB; Alpha-Albumin
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Thr210-Glu403】
Accession #	O89020
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	23.5 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Functions as carrier for hydrophobic molecules in body fluids. Essential for the solubility and activity of lipidated Wnt family members, including WNT1, WNT2B, WNT3, WNT3A, WNT5A, WNT7A, WNT7B, WNT8, WNT9A, WNT9B, WNT10A and WNT10B. Binds vitamin E. May transport vitamin E in body fluids under conditions where the lipoprotein system is not sufficient. May be involved in the transport of vitamin E across the blood-brain barrier.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

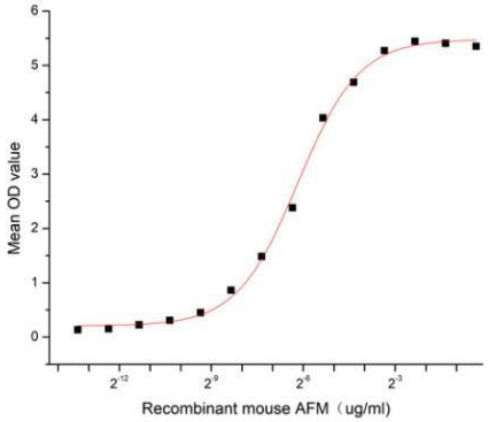


Figure 1. The binding activity of recombinant mouse AFM and recombinant human WNT3A

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 µl were then transferred to WNT3A-coated microtiter wells and incubated for 1h at 37°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°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µL 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.

注意事项（Note）

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