

Afamin/AFM Protein, Human (578a.a, HEK293, C-His)

Cat. No.:	HY-P70036B
Synonyms:	rHuAfamin, His; Afamin; AFM; ALB2; ALB2alpha-Alb; ALBA; ALBAalpha-albumin; ALF; Alpha-Alb; Alpha-albumin
Species:	Human
Source:	HEK293
Accession:	P43652 (L13-N599)
Gene ID:	173
Molecular Weight:	80-130 kDa

PROPERTIES

AA Sequence

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L F F L T E S L T L   P T Q P R D I E N F   N S T Q K F I E D N   I E Y I T I I A F A
Q Y V Q E A T F E E   M E K L V K D M V E   Y K D R C M A D K T   L P E C S K L P N N
V L Q E K I C A M E   G L P Q K H N F S H   C C S K V D A Q R R   L C F F Y N K K S D
V G F L P P F P T L   D P E E K C Q A Y E   S N R E S L L N H F   L Y E V A R R N P F
V F A P T L L T V A   V H F E E V A K S C   C E E Q N K V N C L   Q T R A I P V T Q Y
L K A F S S Y Q K H   V C G A L L K F G T   K V V H F I Y I A I   L S Q K F P K I E F
K E L I S L V E D V   S S N Y D G C C E G   D V V Q C I R D T S   K V M N H I C S K Q
D S I S S K I K E C   C E K K I P E R G Q   C I I N S N K D D R   P K D L S L R E G K
F T D S E N V C Q E   R D A D P D T F F A   K F T F E Y S R R H   P D L S I P E L L R
I V Q I Y K D L L R   N C C N T E N P P G   C Y R Y A E D K F N   E T T E K S L K M V
Q Q E C K H F Q N L   G K D G L K Y H Y L   I R L T K I A P Q L   S T E E L V S L G E
K M V T A F T T C C   T L S E E F A C V D   N L A D L V F G E L   C G V N E N R T I N
P A V D H C C K T N   F A F R R P C F E S   L K A D K T Y V P P   P F S Q D L F T F H
A D M C Q S Q N E E   L Q R K T D R F L V   N L V K L K H E L T   D E E L Q S L F T N
F A N V V D K C C K   A E S P E V C F N E   E S P K I G N
  
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Biological Activity	Measured by its ability to chemoattract bioassay using MC3T3-E1 cells. The ED ₅₀ for this effect is 15.01ng/mL, corresponding to a specific activity is 4.657×10 ⁴ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

Afamin/AFM protein acts as a carrier for hydrophobic molecules in body fluids, potentially playing a crucial role in the solubility and activity of lipidated Wnt family members, including WNT1, WNT2B, WNT3, WNT3A, WNT5A, WNT7A, WNT7B, WNT8, WNT9A, WNT9B, WNT10A, and WNT10B. Additionally, it binds vitamin E and may function as a transporter for this vitamin in body fluids, particularly under conditions where the lipoprotein system is insufficient. There is a potential involvement in the transport of vitamin E across the blood-brain barrier. Afamin forms a 1:1 complex with Wnt family members, interacting with a range of WNT proteins, including WNT1, WNT2B, WNT3, WNT3A, WNT5A, WNT7A, WNT7B, WNT8, WNT9A, WNT9B, WNT10A, and WNT10B.

Caution: Product has not been fully validated for medical applications. For research use only.

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