

## ApoA-IV Protein, Mouse (P.pastoris, His)

<b>Cat. No.:</b>	HY-P71715
<b>Synonyms:</b>	Apoa4; Apolipoprotein A-IV; Apo-AIV; ApoA-IV; Apolipoprotein A4
<b>Species:</b>	Mouse
<b>Source:</b>	P. pastoris
<b>Accession:</b>	P06728 (E21-S395)
<b>Gene ID:</b>	11808
<b>Molecular Weight:</b>	Approximately 45.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> E V T S D Q V A N V      V W D Y F T Q L S N      N A K E A V E Q F Q      K T D V T Q Q L S T L F Q D K L G D A S      T Y A D G V H N K L      V P F V V Q L S G H      L A Q E T E R V K E E I K K E L E D L R      D R M M P H A N K V      T Q T F G E N M Q K      L Q E H L K P Y A V D L Q D Q I N T Q T      Q E M K L Q L T P Y      I Q R M Q T T I K E      N V D N L H T S M M P L A T N L K D K F      N R N M E E L K G H      L T P R A N E L K A      T I D Q N L E D L R R S L A P L T V G V      Q E K L N H Q M E G      L A F Q M K K N A E      E L Q T K V S A K I D Q L Q K N L A P L      V E D V Q S K V K G      N T E G L Q K S L E      D L N R Q L E Q Q V E E F R R T V E P M      G E M F N K A L V Q      Q L E Q F R Q Q L G      P N S G E V E S H L S F L E K S L R E K      V N S F M S T L E K      K G S P D Q P Q A L      P L P E Q A Q E Q A Q E Q A Q E Q V Q P      K P L E S </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The ApoA-IV protein is implicated in various aspects of lipid metabolism, playing a potential role in the secretion and catabolism of chylomicrons and very-low-density lipoproteins (VLDL). It is essential for the efficient activation of lipoprotein lipase by ApoC-II and serves as a potent activator of lecithin-cholesterol acyltransferase (LCAT). ApoA-IV emerges as a
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significant component of high-density lipoproteins (HDL) and chylomicrons, highlighting its involvement in both cholesterol transport and metabolism. Structurally, the protein forms homodimers, indicative of its molecular arrangement in these crucial lipid-related processes.

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

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