

Apolipoprotein H/APOH Protein, Rat (HEK293, His)

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| Cat. No.: | HY-P74410 |
| Synonyms: | Apolipoprotein H; ApoH; B2G1; B2GP1 |
| Species: | Rat |
| Source: | HEK293 |
| Accession: | Q5I0M1 (G20-C345) |
| Gene ID: | 287774 |
| Molecular Weight: | Approximately 45-70 kDa due to the glycosylation. |

PROPERTIES

AA Sequence

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|---------------------|---------------------|---------------------|---------------------|
| G R T C P K P D E L | P F A V V V P L K T | F Y D P G E Q I V Y | S C K P G Y V S R G |
| G M R R F T C P L T | G M W P I N T L K C | I P R V C P F A G I | L E N G V V R Y T T |
| F E Y P N T I G F A | C N P G Y Y L N G T | S S S K C T E E G K | W S P E L P V C A R |
| I T C P P P P I P K | F A A L K E Y K T S | V G N S S F Y Q D T | V V F K C L P H F A |
| M F G N D T V T C T | A H G N W T Q L P E | C R E V K C P F P S | R P D N G F V N Y P |
| A K P V L S Y K D K | A V F G C H E T Y K | L D G P E E V E C T | K T G N W S A L P S |
| C K A S C K L S V K | K A T V L Y Q G Q R | V K I Q D Q F K N G | M M H G D K V H F Y |
| C K N K E K K C S Y | T E E A Q C I D G T | I E I P K C F K E H | S S L A F W K T D A |
| S D V T P C | | | |

Biological Activity Measured by its binding ability in a functional ELISA. When Recombinant Rat Apolipoprotein H Protein is immobilized at 2 µg/mL (100 µL/well) can bind Biotinylated Human LDLR Protein. The ED₅₀ for this effect is 0.7041 µg/mL.

Appearance Lyophilized powder

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, 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 ddH₂O. 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

The Apolipoprotein H/APOH protein exhibits versatile functionality as it binds to various negatively charged substances, including heparin, phospholipids, and dextran sulfate. Its interactions with these substances suggest a broad spectrum of molecular engagements, highlighting its adaptability. Notably, Apolipoprotein H/APOH may play a crucial role in preventing the activation of the intrinsic blood coagulation cascade by specifically binding to phospholipids present on the surface of damaged cells. This functionality underscores its potential contribution to the regulation of coagulation processes and its importance in maintaining hemostatic balance in response to cellular damage.

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

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