

AMY2A Protein, Human (HEK293, His)

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| Cat. No.: | HY-P76722 |
| Synonyms: | Pancreatic alpha-amylase; PA; 1,4-alpha-D-glucan glucanohydrolase |
| Species: | Human |
| Source: | HEK293 |
| Accession: | P04746 (Q16-L511) |
| Gene ID: | 279 |
| Molecular Weight: | 53-58 kDa |

PROPERTIES

AA Sequence

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

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

AMY2A is a hydrolytic enzyme secreted by the pancreas that can hydrolyze α -Enzymes with 1,4-glycosidic bonds, belonging to α -Members of the amylase family. AMY2A plays an important role in digesting dietary starch, and inhibiting AMY2A can lead to a decrease in postprandial blood glucose levels. Therefore, by regulating α -Amylase activity to control blood sugar level has therapeutic significance for diabetes, obesity and other diseases^[1].

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

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