

ALPI Protein, Human (HEK293, His)

Cat. No.:	HY-P72822
Synonyms:	Intestinal-type alkaline phosphatase; IAP; ALPI; Alkaline Phosphatase
Species:	Human
Source:	HEK293
Accession:	P09923 (V20-D503)
Gene ID:	248
Molecular Weight:	Approximately 70-80 kDa

PROPERTIES

AA Sequence

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V I P A E E E N P A   F W N R Q A A E A L   D A A K K L Q P I Q   K V A K N L I L F L
G D G L G V P T V T   A T R I L K G Q K N   G K L G P E T P L A   M D R F P Y L A L S
K T Y N V D R Q V P   D S A A T A T A Y L   C G V K A N F Q T I   G L S A A A R F N Q
C N T T R G N E V I   S V M N R A K Q A G   K S V G V V T T T R   V Q H A S P A G T Y
A H T V N R N W Y S   D A D M P A S A R Q   E G C Q D I A T Q L   I S N M D I D V I L
G G G R K Y M F P M   G T P D P E Y P A D   A S Q N G I R L D G   K N L V Q E W L A K
H Q G A W Y V W N R   T E L M Q A S L D Q   S V T H L M G L F E   P G D T K Y E I H R
D P T L D P S L M E   M T E A A L R L L S   R N P R G F Y L F V   E G G R I D H G H H
E G V A Y Q A L T E   A V M F D D A I E R   A G Q L T S E E D T   L T L V T A D H S H
V F S F G G Y T L R   G S S I F G L A P S   K A Q D S K A Y T S   I L Y G N G P G Y V
F N S G V R P D V N   E S E S G S P D Y Q   Q Q A A V P L S S E   T H G G E D V A V F
A R G P Q A H L V H   G V Q E Q S F V A H   V M A F A A C L E P   Y T A C D L A P P A
C T T D
  
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Biological Activity Measured by its ability to cleave the fluorogenic peptide substrate, 4-Methylumbelliferyl phosphat. The specific activity is 158755.391 pmol/min/μg, as measured under the described conditions.

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

ALPI protein serves as an alkaline phosphatase with the capacity to hydrolyze various phosphate compounds.

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

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