

## ALPI Protein, Human (HEK293, N-His)

<b>Cat. No.:</b>	HY-P700394
<b>Synonyms:</b>	Intestinal-type alkaline phosphatase; IAP; ALPI; Alkaline Phosphatase
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P09923 (V20-D503)
<b>Gene ID:</b>	248
<b>Molecular Weight:</b>	55.2 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** Unit Definition: One unit is defined as the amount of enzyme required to cleave 1 nmol p-nitro-phenylphosphate (pNPP), in 1 minute at 37°C, pH 10.0. The specific activity is > 8836.463 U/mg.

**Appearance** Lyophilized powder

**Formulation** Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

**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<sub>2</sub>O.

**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.

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## DESCRIPTION

### Background

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

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

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