

## Alkaline Phosphatase/ALPP Protein, Human (HEK293, C-His)

<b>Cat. No.:</b>	HY-P7487A
<b>Synonyms:</b>	rHuAlkaline Phosphatase, His; ALPP; PLAP; ALP; AKP2; Alkaline Phosphatase
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P05187 (I23-D506)
<b>Gene ID:</b>	250
<b>Molecular Weight:</b>	approximately 62.5 kDa

### PROPERTIES

#### AA Sequence

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

**Biological Activity** Immobilized Human ALPP at 1 µg/mL (100 µL/well) can bind Anti-ALPP Antibody, The ED<sub>50</sub> for this effect is 3.432 ng/mL.

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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 ddH<sub>2</sub>O. 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.

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## DESCRIPTION

### Background

Alkaline phosphatase (ALP), encoded by the ALPP gene, is an enzyme known for its efficient hydrolysis of various phosphate compounds under alkaline conditions. This protein plays a crucial role in maintaining phosphate homeostasis and is involved in diverse physiological processes. ALP is notably expressed by osteoblasts in bone tissue, where it is essential for mineralization during bone formation. Moreover, ALP serves as a valuable biomarker, particularly in assessing liver and bone health, with elevated serum levels indicative of certain disorders.

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

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