

## ALPI Protein, Rat (HEK293, His)

Cat. No.:	HY-P700395
Synonyms:	Intestinal-type alkaline phosphatase; IAP; ALPI; Alkaline Phosphatase
Species:	Rat
Source:	HEK293
Accession:	P15693 (V21-N511)
Gene ID:	24197
Molecular Weight:	55.9 kDa

### PROPERTIES

#### AA Sequence

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

**Biological Activity** Unit Definition: One unit is defined as the amount of enzyme required to cleave 1 nmol p-nitro-pbenylphosphate (pNPP), in 1 minute at 37°C, pH 10.0. The specific activity is 10000 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 is an alkaline phosphatase enzyme that possesses the capability to hydrolyze a range of phosphate compounds. It exhibits the ability to break down various phosphate molecules through its enzymatic activity.

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

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