

ACP5 Protein, Human (HEK293, His)

Cat. No.:	HY-P75561
Synonyms:	Tartrate-resistant acid phosphatase type 5; TR-AP; TrATPase; T5ap; Trap
Species:	Human
Source:	HEK293
Accession:	P13686 (A22-P320)
Gene ID:	54
Molecular Weight:	Approximately 35 kDa

PROPERTIES

AA Sequence	<p> A T P A L R F V A V G D W G G V P N A P F H T A R E M A N A K E I A R T V Q I L G A D F I L S L G D N F Y F T G V Q D I N D K R F Q E T F E D V F S D R S L R K V P W Y V L A G N H D H L G N V S A Q I A Y S K I S K R W N F P S P F Y R L H F K I P Q T N V S V A I F M L D T V T L C G N S D D F L S Q Q P E R P R D V K L A R T Q L S W L K K Q L A A A R E D Y V L V A G H Y P V W S I A E H G P T H C L V K Q L R P L L A T Y G V T A Y L C G H D H N L Q Y L Q D E N G V G Y V L S G A G N F M D P S K R H Q R K V P N G Y L R F H Y G T E D S L G G F A Y V E I S S K E M T V T Y I E A S G K S L F K T R L P </p>
Biological Activity	Measured by its ability to cleave a substrate, p-Nitrophenyl phosphate (pNPP). The specific activity is 37780 pmoL/min/μg.
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 ddH ₂ 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.

DESCRIPTION

Background	The ACP5 protein is actively engaged in the dephosphorylation of osteopontin and bone sialoprotein. Notably, its expression appears to be upregulated in specific pathological conditions, including Gaucher and Hodgkin diseases, as well as hairy cell, B-cell, and T-cell leukemias. This suggests a potential association between ACP5 expression and these
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pathological states, indicating its relevance in the context of diverse diseases. The involvement of ACP5 in the dephosphorylation of key proteins associated with bone metabolism highlights its role in modulating pathways related to bone health and pathological conditions affecting the hematopoietic system.

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

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