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Product Data Sheet

ACPP/Prostatic Acid Phosphatase Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74430		
Synonyms:	ACP-3; ACPP; Prostatic Acid Phosphatase; PAPf39; PAP		
Species:	Mouse		
Source:	HEK293		
Accession:	Q8CE08 (K32-R381)		
Gene ID:	56318		
Molecular Weight:	Approximately 44-55 kDa due to the glycosylation.		

PROPERTIES

KELKFVTLVF	RHGDRGPIET	FPTDPITESS	WPQGFGQLTQ	
WGMEQHYELG	SYIRKRYGRF	LNDTYKHDQI	YIRSTDVDRT	
LMSAMTNLAA	LFPPEGISIW	NPRLLWQPIP	VHTVSLSEDR	
LLYLPFRDCP	RFEELKSETL	ESEEFLKRLH	P Y K S F L D T L S	
SLSGFDDQDL	FGIWSKVYDP	LFCESVHNFT	LPSWATEDAM	
IKLKELSELS	LLSLYGIHKQ	K E K S R L Q G G V	LVNEILKNMK	
LATQPQKYKK	LVMYSAHDTT	VSGLQMALDV	YNGVLPPYAS	
СНММЕLҮНDК	GGHFVEMYYR	ΝΕΤQΝΕΡΥΡΙ	ТLPGCTHSCP	
LEKFAELLDP	VISQDWATEC	M A T S S H Q V L R		
Measured by its ability to cle	ave 2mM substrate p-Nitro	phenyl phosphate (pNPP).	which can be measured by absorbance at	
410 nm that incubate at room temperature for 5 minutes. The specific activity is 104600.068 pmol/min/μg, as measured				
under the described condition	ons.			
Lyophilized powder.				
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.				
<1 EU/µg, determined by LAL method.				
It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is				
recommended to add a carri	ier protein (0.1% BSA, 5% H	HSA, 10% FBS or 5% Trehalo	se).	
	Our second state of the second			
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 aliquets at -20°C or -80°C for extended storage				
recommended to neeze and		Alenaeu storage.		
Room temperature in continental US; may vary elsewhere.				
	K E L K F V T L V F W G M E Q H Y E L G L M S A M T N L A A L L Y L P F R D C P S L S G F D D Q D L I K L K E L S E L S L A T Q P Q K Y K K C H M M E L Y H D K L E K F A E L L D P Measured by its ability to cle 410 nm that incubate at root under the described condition Lyophilized powder. Lyophilized from a 0.2 µm fill <1 EU/µg, determined by LA It is not recommended to rec recommended to add a carr Stored at -20°C for 2 years. A recommended to freeze alig	K E L K F V T L V F R H G D R G P I E T W G M E Q H Y E L G S Y I R K R Y G R F L M S A M T N L A A L F P P E G I S I W L Y L P F R D C P R F E E L K S E T L S L S G F D D Q D L F G I W S K V Y D P I K L K E L S E L S L L S L Y G I H K Q L A T Q P Q K Y K K L V M Y S A H D T T C H M M E L Y H D K G G H F V E M Y Y R L E K F A E L L D P V I S Q D W A T E C Measured by its ability to cleave 2mM substrate p-Nitro 410 nm that incubate at room temperature for 5 minut under the described conditions. Lyophilized powder. Lyophilized from a 0.2 µm filtered solution of PBS, pH T <1 EU/µg, determined by LAL method. It is not recommended to reconstitute to a concentration recommended to add a carrier protein (0.1% BSA, 5% H Stored at -20°C for 2 years. After reconstitution, it is state recommended to freeze aliquots at -20°C or -80°C for examples.	KELKFVTLVFRHGDRGPIETFPTDPITESSWGMEQHYELGSYIRKRYGRFLNDTYKHDQILMSAMTNLAALFPPEGISIWNPRLLWQPIPLLYLPFRDCPRFEELKSETLESEFLKRLHSLSGFDDQDLFGIWSKVYDPLFCESVHNFTIKLKELSELSLLSLYGIHKQKEKSRLQGGVLATQPQKYKKLVMYSAHDTVSGLQMALDVCHMMELYHDKGGHFVEMYYRNETQNEPYPLLEKFAELLDPVISQDWATECMATSSHQVLRMeasured by its ability to cleave 2mM substrate p-Nitrophenyl phosphate (pNPP).410 nm that incubate at room temperature for 5 minutes. The specific activity is 10 under the described conditions.Lyophilized powder.Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<1 EU/µg, determined by LAL method.	

DESCRIPTION

Background

Prostatic Acid Phosphatase (ACPP) protein serves as a versatile non-specific tyrosine phosphatase, exhibiting its catalytic activity under acidic conditions (pH 4-6) on a broad range of substrates, including alkyl, aryl, and acyl orthophosphate monoesters, as well as phosphorylated proteins. Notably, ACPP also displays lipid phosphatase activity, contributing to the inactivation of lysophosphatidic acid in seminal plasma. Beyond its tyrosine phosphatase functions, ACPP demonstrates ecto-5'-nucleotidase activity in dorsal root ganglion neurons, leading to the generation of adenosine from AMP. This extracellular adenosine, in turn, contributes to a reduction in chronic pain by activating A1R in nociceptive neurons. The multifaceted enzymatic activities of ACPP highlight its potential significance in various cellular processes and its therapeutic implications, particularly in pain management.

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

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