Prostatic Acid Phosphatase (ACPP) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Prostatic acid phosphatase (Acpp), Recombinant Protein
Full Product Name	Recombinant Mouse Prostatic acid phosphatase (Acpp)
Product Gene Name	Acpp recombinant protein
Product Synonym Gene Name	Acpp
Sequence	KELKFVTLVF RHGDRGPIET FPTDPITESS WPQGFGQLTQ WGMEQHYELG SYIRKRYGRF LNDTYKHDQI YIRSTDVDRT LMSAMTNLAA LFPPEGISIW NPRLLWQPIP VHTVSLSEDR LLYLPFRDCP RFEELKSETL ESEEFLKRLH PYKSFLDTLS SLSGFDDQDL FGIWSKVYDP LFCESVHNFT LPSWATEDAM IKLKELSELS LLSLYGIHKQ KEKSRLQGGV LVNEILKNMK LATQPQKYKK LVMYSAHDTT VSGLQMALDV YNGVLPPYAS CHMMELYHDK GGHFVEMYYR NETQNEPYPL TLPGCTHSCP LEKFAELLDP VISQDWATEC MATSSHQGRN
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	47,863 Da
Sequence Positions	32-381, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8CE08
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Acpp recombinant protein	MBS1327268 is a recombinant protein targeting Acpp. Also known as Recombinant Mouse Prostatic acid phosphatase (Acpp). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Acpp recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Acpp. It may not necessarily be applicable to this product.

NCBI GI #	46575784
NCBI GeneID	56318
NCBI Accession #	NP_062781.2
UniProt Primary Accession #	Q8CE08
UniProt Secondary Accession #	Q8C682; Q9QXH7; A4QPG2; B8JJZ5; B8JJZ6

UniProt Related Accession #	Q8CE08
GenBank Nucleotide #	NM_019807.2
NCBI Official Full Name	prostatic acid phosphatase isoform 2
NCBI Official Synonym Full Names	acid phosphatase, prostate
NCBI Official Symbol	Acpp
NCBI Official Synonym Symbols	Lap; PAP; FRAP; Ppal; 5'-NT; A030005E02Rik
UniProt Protein Name	Prostatic acid phosphatase
UniProt Synonym Protein Names	5'-nucleotidase (EC:3.1.3.5); 5'-NT; Ecto-5'-nucleotidase; Fluoride-resistant acid phosphatase; FRAP; Thiamine monophosphatase; TMPase
Protein Family	Acyl carrier protein
UniProt Gene Name	Acpp
UniProt Synonym Gene Names	5'-NT; FRAP; TMPase
NCBI Protein Information	prostatic acid phosphatase
UniProt Comments for Acpp	A non-specific tyrosine phosphatase that dephosphorylates a diverse number of substrates under acidic conditions (pH 4-6) including alkyl, aryl, and acyl orthophosphate monoesters and phosphorylated proteins. Has lipid phosphatase activity and inactivates lysophosphatidic acid in seminal plasma ().
Research Articles on Acpp	**1.** PAP-immunoreactivity was present in type I and one of type III taste cells of taste buds. Thus, it is suggested that PAP might be a responsible ectoenzyme for metabolism of extracellular nucleotides, being involved in the regulation of taste signaling in taste buds.
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