Xaa-Pro Dipeptidase (Pepq), Partial (pepQ) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Xaa-Pro dipeptidase (pepQ), partial, Recombinant Protein
Full Product Name	Recombinant Xaa-Pro dipeptidase (pepQ), partial
Product Gene Name	pepQ recombinant protein
Product Synonym Gene Name	pepQ; opaA
Product Synonym Names	Xaa-Pro dipeptidase; X-Pro dipeptidase; EC=3.4.13.9; DFPase; Imidodipeptidase; Organophosphorus acid anhydrolase 2; OPAA-2; EC=3.1.8.2; Paraoxon hydrolase; Phosphotriesterase; EC=3.1.8.1; Proline dipeptidase; Prolidase
Sequence	MNKLAVLYAE HIATLQKRTR EIIERENLDG VVFHSGQAKR QFLDDMYYPF KVNPQFKAWL PVIDNPHCWI VANGTDKPKL IFYRPVDFWH KVPDEPNEYW ADYFDIELLV KPDQVEKLLP YDKARFAYIG EYLEVAQALG FELMNPEPVM NFYHYHRAYK TQYELACMRE ANKIAVQGHK AARDAFFQGK SEFEIQQAYL LATQHSENDN AYGNIVALNE NCAILHYTHF DRVAPATHRS FLIDAGANFN GYAADITRTY DFTGEGEFAE LVATMKQHQI ALCNQLAPGK LYGELHLDCH QRVAQTLSDF NIVDLSADEI VAKGITSTFF PHGLGHHIGL QVHDVGGFMA DEQGAHQEPP EGHPFLRCTR KIEANQVFTI EPGLYFIDSL LGDLAATDNN QHINWDKVAE LKPFGGIRIE DNIIVHEDSL ENMTREL
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	58,998 Da
Sequence Positions	1-437. Partial
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 Q44238
Species	Alteromonas sp.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pepQ recombinant protein	MBS1330834 is a recombinant protein targeting pepQ. Also known as Recombinant Xaa-Pro dipeptidase (pepQ), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pepQ 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 pepQ. It may not necessarily be applicable to this product.

NCBI GI #	166215045

NCBI Accession #	Q44238.3
UniProt Primary Accession #	Q44238
NCBI Official Full Name	Xaa-Pro dipeptidase
UniProt Protein Name	Xaa-Pro dipeptidase
UniProt Synonym Protein Names	DFPase; Imidodipeptidase; Organophosphorus acid anhydrolase 2 (EC:3.1.8.2); OPAA-2; Paraoxon hydrolase; Phosphotriesterase (EC:3.1.8.1); Proline dipeptidase; Prolidase
Protein Family	Xaa-Pro dipeptidase
UniProt Gene Name	pepQ
UniProt Synonym Gene Names	opaA; X-Pro dipeptidase; OPAA-2; Prolidase
UniProt Entry Name	PEPQ_ALTSX
UniProt Comments for pepQ	Splits dipeptides with a prolyl or hydroxyprolyl residue in the C-terminal position and a nonpolar amino acid at the N-terminal position. Also catalyzes the hydrolysis of toxic organophosphorus cholinesterase-inhibiting compounds including insecticide paraoxon and nerve gases such as diisopropylfluorophosphate (DFP), O-isopropyl methylphosphonofluoridate (sarin), O-pinacolyl methylphosphonofluoridate (soman), and O-cyclohexyl methylphosphonofluoridate.
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