Uncharacterized Protein Yjea (poxA) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Uncharacterized protein YjeA (poxA), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Uncharacterized protein YjeA (poxA)
Product Gene Name	poxA recombinant protein
Sequence	MSETASWQPS ASIPNLLKRA AIMAEIRRFF ADRGVLEVET PCMSQATVTD IHLVPFETRF VGPGHSQGMN LWLMTSPEYH MKRLLVAGCG PVFQLCRSFR NEEMGRYHNP EFTMLEWYRP HYDMYRLMNE VDDLLQQVLD CPAAESLSYQ QAFLRYLEID PLSADKTQLR EVAAKLDLSN VADTEEDRDT LLQLLFTFGV EPNIGKEKPT FVYHFPASQA SLAQISTEDH RVAERFEVYY KGIELANGFH ELTDAREQQQ RFEQDNRKRA ARGLPQHPID QNLIEALKVG MPDCSGVALG VDRLVMLALG AETLAEVIAF SVDRA
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	36,976 Da
Sequence Positions	1-325, 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 P0A8N7
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for poxA recombinant protein	MBS1129567 is a recombinant protein targeting poxA. Also known as Recombinant Escherichia coli Uncharacterized protein YjeA (poxA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of poxA 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 poxA. It may not necessarily be applicable to this product.

NCBI GI #	90111694
NCBI GeneID	948672
NCBI Accession #	NP_418579.2
UniProt Primary Accession #	P0A8N7
UniProt Secondary Accession #	P03812; P78141; Q2M6E7; Q8XDP9
GenBank Nucleotide #	NC_000913.3

NCBI Official Full Name	Elongation Factor P Lys34 lysyltransferase
NCBI Official Symbol	epmA
NCBI Official Synonym Symbols	ECK4151; genX; JW4116; poxA; yjeA
UniProt Protein Name	Elongation factor P--(R)-beta-lysine ligase
UniProt Synonym Protein Names	EF-P post-translational modification enzyme A
Protein Family	Peroxinectin
UniProt Gene Name	epmA
UniProt Synonym Gene Names	EF-P--(R)-beta-lysine ligase
NCBI Protein Information	Elongation Factor P Lys34 lysyltransferase
NCBI Summary for poxA	The poxA pleiotropic phenotypes are not due to a defect in pyruvate oxidase. [More information is available at EcoGene: EG11211]. PoxA is suggested to regulate pyruvate oxidase . [More information is available at EcoCyc: EG11211].
UniProt Comments for poxA	With EpmB is involved in the beta-lysylation step of the post-translational modification of translation elongation factor P (EF-P) on 'Lys-34'. Catalyzes the ATP-dependent activation of (R)-beta-lysine produced by EpmB, forming a lysyl-adenylate, from which the beta-lysyl moiety is then transferred to the epsilon-amino group of EF-P 'Lys-34'. (R)-beta-lysine is 100-fold more efficient as a substrate than either (S)-beta-lysine or L-alpha-lysine. Cannot ligate lysine to any tRNA.
Research Articles on poxA	**1.** GenX-elongation factor P-lysyl adenylate analogue crystals belonged to the monoclinic space group P2(1), with unit-cell parameters a=105.93, b=102.96, c=119.94 A, beta=99.4 degrees, and diffracted to 2.5 A resolution
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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