Phenylacetate-Coenzyme A Ligase (paaK) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phenylacetate-coenzyme A ligase (paaK), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Phenylacetate-coenzyme A ligase (paaK)
Product Gene Name	paaK recombinant protein
Sequence	MITNTKLDPI ETASVDELQA LQTQRLKWTL KHAYENVPMY RRKFDAAGVH PDDFRELSDL RKFPCTTKQD LRDNYPFDTF AVPMEQVVRI HASSGTTGKP TVVGYTQNDI DNWANIVARS LRAAGGSPKD KIHVAYGYGL FTGGLGAHYG AERLGATVIP MSGGQTEKQA QLIRDFQPDM IMVTPSYCLN LIEELERQLG GDASGCSLRV GVFGAEPWTQ AMRKEIERRL GITALDIYGL SEVMGPGVAM ECLETTDGPT IWEDHFYPEI VNPHDGTPLA DGEHGELLFT TLTKEALPVI RYRTRDLTRL LPGTARTMRR MDRISGRSDD MLIIRGVNVF PSQLEEEIVK FEHLSPHYQL EVNRRGHLDS LSVKVELKES SLTLTHEQRC QVCHQLRHRI KSMVGISTDV MIVNCGSIPR SEGKACRVFD LRNIVGA
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	48,953 Da
Sequence Positions	1-437, 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 P76085
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for paaK recombinant protein	MBS1252304 is a recombinant protein targeting paaK. Also known as Recombinant Escherichia coli Phenylacetate-coenzyme A ligase (paaK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of paaK 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 paaK. It may not necessarily be applicable to this product.

NCBI GI #	16129359
NCBI GeneID	945963
NCBI Accession #	NP_415916.1
UniProt Primary Accession #	P76085
UniProt Secondary Accession #	O53018; Q2MBC8

GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	phenylacetyl-CoA ligase
NCBI Official Symbol	paaK
NCBI Official Synonym Symbols	ECK1395; JW5218
UniProt Protein Name	Phenylacetate-coenzyme A ligase
UniProt Synonym Protein Names	Phenylacetyl-CoA ligase; PA-CoA ligase
Protein Family	Phenylacetate-coenzyme A ligase
UniProt Gene Name	paaK
UniProt Synonym Gene Names	PA-CoA ligase
NCBI Protein Information	phenylacetyl-CoA ligase
NCBI Summary for paaK	PaaK is a phenylacetate-CoA ligase (shown in Escherichia coli W) that acts at the first step in an aerobic pathway of phenylacetate degradation . [More information is available at EcoCyc: G6719].
UniProt Comments for paaK	Catalyzes the activation of phenylacetic acid (PA) to phenylacetyl-CoA (PA-CoA).
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