Pup--Protein Ligase (pafA) Frankia Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pup--protein ligase (pafA), Recombinant Protein
Full Product Name	Recombinant Frankia sp. Pup--protein ligase (pafA)
Product Gene Name	pafA recombinant protein
Product Synonym Gene Name	pafA
Sequence	MDRRIFGLEN EYGVTCVFRG QRRLSPDEVA RYLFRRVVSW GRSSNVFLKN GARLYLDVGS HPEYATPECD SVPDLVTHDK AGERILEGLL VEAERRLREE GIAGDIHLFK NNTDSAGNSY GCHENYLVGR HGEFSKLADV LVPFLVSRQI LCGAGKVLQT PRGAVYCISQ RAEHIWESVS SATTRSRPII NTRDEPHADA ERFRRLHVIV GDSNMSETTM LLKLGATDLV LRMIEAGVML RDMTLENPIR AIREVSHDMT CQRRIKLANG REVSALDIQW EYHSKAVEFV ERRGGDGDEV AKRVLDLWGR TLLAIETDDL ELVAREIDWV TKYVLIERFR HKHGLSLASP RVAELDLKYH DIHRDRGLYY RMERAGLVER VTRDLDVFEA KSRPPQTTRA RLRGEFIKRA QEKRRDFTVD WVHLKLNDQA QRTVLCKDPF RSVDDRVDKL IASM
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	52,205 Da
Sequence Positions	1-454, 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 Q2J9R8
Species	Frankia sp. (strain CcI3)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pafA recombinant protein	MBS1432363 is a recombinant protein targeting pafA. Also known as Recombinant Frankia sp. Pup--protein ligase (pafA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pafA 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 pafA. It may not necessarily be applicable to this product.

NCBI GI #	499756275
NCBI Accession #	WP_011437009.1
UniProt Primary Accession #	Q2J9R8
GenBank Nucleotide #	WP_011437009.1

NCBI Official Full Name	MULTISPECIES: Pup--protein ligase
UniProt Protein Name	Pup--protein ligase
UniProt Synonym Protein Names	Proteasome accessory factor A
Protein Family	Alkaline phosphatase
UniProt Gene Name	pafA
UniProt Comments for pafA	Catalyzes the covalent attachment of the prokaryotic ubiquitin-like protein modifier Pup to the proteasomal substrate proteins, thereby targeting them for proteasomal degradation. This tagging system is termed pupylation. The ligation reaction involves the side-chain carboxylate of the C-terminal glutamate of Pup and the side-chain amino group of a substrate lysine.
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