Enamine/Imine Deaminase (yjgF) Pyrococcus Furiosus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Enamine/imine deaminase (yjgF), Recombinant Protein
Full Product Name	Recombinant Pyrococcus furiosus Enamine/imine deaminase (yjgF)
Product Gene Name	yjgF recombinant protein
Product Synonym Gene Name	yjgF
Sequence	MKEVIFAENA PKPIGPYSQA IKAGNFLFIA GQIPIDPKTG EIVKGDIKAQ TRQVLENIKA ILEAAGYSLT DVVKVTVYLK DMNDFAKMNE VYAEYFGESK PARAAVEVSR LPKDVLIEIE AIAYKE
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	13,907 Da
Sequence Positions	1-126, 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 Q8U308
Species	Pyrococcus furiosus (strain 43587 / DSM 3638 / JCM 8422 / Vc1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for yjgF recombinant protein	MBS1413434 is a recombinant protein targeting yjgF. Also known as Recombinant Pyrococcus furiosus Enamine/imine deaminase (yjgF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of yjgF 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 yjgF. It may not necessarily be applicable to this product.

NCBI GI #	499321297
NCBI Accession #	WP_011011789.1
UniProt Primary Accession #	Q8U308
GenBank Nucleotide #	WP_011011789.1
NCBI Official Full Name	endoribonuclease
UniProt Protein Name	2-iminobutanoate/2-iminopropanoate deaminase

UniProt Synonym Protein Names	Enamine/imine deaminase
UniProt Gene Name	yjgF
UniProt Comments for yjgF	Accelerates the release of ammonia from reactive enamine/imine intermediates of the PLP-dependent threonine dehydratase (IlvA) in the low water environment of the cell. It catalyzes the deamination of enamine/imine intermediates to yield 2-ketobutyrate and ammonia. It is required for the detoxification of reactive intermediates of IlvA due to their highly nucleophilic abilities. Involved in the isoleucine biosynthesis.
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