UPF0597 Protein MJ1025 (MJ1025) Methanocaldococcus Jannaschii Recombinant Protein

PRODUCT OVERVIEW

Product Name	UPF0597 protein MJ1025 (MJ1025), Recombinant Protein
Full Product Name	Recombinant Methanocaldococcus jannaschii UPF0597 protein MJ1025 (MJ1025)
Product Gene Name	MJ1025 recombinant protein
Product Synonym Names	UPF0597 protein MJ1025
Sequence	MVSIMNKNEL ITEILKNEVV KALGCTEVGL IGYTVAKAKP EDLYSIKEIK LILDKGTFKN AFSVGVPNTN KFGILPAVVG GLLGREENKL EVFKDIKYDE KLEEFIENKL KIEVIDSDVY CKVIIKANKV YEAETKGSHS GKSLSDDLKN AYKSLTLKDF IDYIEDIPEE VIKIIKETIE TNKNLSTPEV PEDFISLDLK DEILNHMLKK TVSAVYNRMI GINKPAMAIA GSGNMGLTAT LPIIAYDEIK GHDEEKLTKS ITLSALTTIY SAYHSSYISA MCGCVNRGGI GAVSGLSYYI FGFDRIEESI KSFTANLPGI VCDGGKIGCA LKIASGVFAI YLSLFSKVPY TNGIVGKDFK ECIENIGKIG KAMKPVDDEI IEILKNKK
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	42,645 Da
Sequence Positions	1-388aa; 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 Q58431
Species	Methanocaldococcus jannaschii (strain 43067 / DSM 2661 / JAL-1 / JCM 10045 / NBRC 100440) (Methanococcus jannaschii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MJ1025 recombinant protein	MBS1437843 is a recombinant protein targeting MJ1025. Also known as Recombinant Methanocaldococcus jannaschii UPF0597 protein MJ1025 (MJ1025). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of MJ1025 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 MJ1025. It may not necessarily be applicable to this product.

NCBI GI #	15669214
NCBI GeneID	1451922
NCBI Accession #	NP_248019.1
UniProt Primary Accession #	Q58431

UniProt Related Accession #	Q58431
GenBank Nucleotide #	NC_000909.1
NCBI Official Full Name	hypothetical protein MJ_1025
NCBI Official Symbol	MJ_1025
UniProt Protein Name	UPF0597 protein MJ1025
Protein Family	L-cysteine desulfidase
UniProt Gene Name	MJ1025
UniProt Entry Name	Y1025_METJA
NCBI Protein Information	hypothetical protein
UniProt Comments for MJ1025	Catalyzes the cleavage of L-cysteine to form 2-aminoprop-2-enoate and sulfide. The former then spontaneously hydrolyzes to pyruvate and NH3. May be responsible for the production of sulfide required for the biosynthesis of iron-sulfur centers in this archaea. Is very specific for L-cysteine, with no activity being detected with D-cysteine, L-homocysteine, 3-mercaptopropionate (cysteine without the amino group), cysteamine (cysteine without the carboxylate), or mercaptolactate (the hydroxyl analog of cysteine).
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