L-Fuculose Phosphate Aldolase (fucA) Methanocaldococcus Jannaschii Recombinant Protein

PRODUCT OVERVIEW

Product Name	L-fuculose phosphate aldolase (fucA), Recombinant Protein
Full Product Name	Recombinant Methanocaldococcus jannaschii L-fuculose phosphate aldolase (fucA)
Product Gene Name	fucA recombinant protein
Product Synonym Gene Name	fucA; MJ1418
Product Synonym Names	L-fuculose phosphate aldolase; EC=4.1.2.17; L-fuculose-1-phosphate aldolase
Sequence	MDKKQFIKIC RKLYDRKYVV GSGGNVSVKE GDKIYLTPTG SILGFLKEDD IAEMDLDGNV IKGKPTSEKN LHLMIYRKRN DINAIIHTHS LISTFLSTIN KEIELLTPEG KIFLKKIGYV DYYEAGSLKL AEETAKRDED VIILKNHGVV CLGKDLIDAY IKVEVLEEQA KLTLLNLLVK K
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	20,470 Da
Sequence Positions	1-181aa; 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 Q58813
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 fucA recombinant protein	MBS1342855 is a recombinant protein targeting fucA. Also known as Recombinant Methanocaldococcus jannaschii L-fuculose phosphate aldolase (fucA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of fucA 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 fucA. It may not necessarily be applicable to this product.

NCBI GI #	15669609
NCBI GeneID	1452322
NCBI Accession #	NP_248422.1

UniProt Primary Accession #	Q58813
UniProt Related Accession #	Q58813
GenBank Nucleotide #	NC_000909.1
NCBI Official Full Name	fuculose-1-phosphate aldolase FucA
NCBI Official Symbol	MJ_1418
UniProt Protein Name	L-fuculose phosphate aldolase
UniProt Synonym Protein Names	L-fuculose-1-phosphate aldolase
Protein Family	L-fuculose phosphate aldolase
UniProt Gene Name	fucA
UniProt Synonym Gene Names	MJ1418
UniProt Entry Name	FUCA_METJA
NCBI Protein Information	fuculose-1-phosphate aldolase FucA
UniProt Comments for fucA	Catalyzes the reversible aldol cleavage of L-fuculose-1-phosphate to dihydroxyacetone phosphate (DHAP) and L-lactaldehyde. The substrate preference order is glyceraldehyde > DL-lactaldehyde, glycolaldehyde > acrolein > formaldehyde, methylglyoxal > acetaldehyde > crotonaldehyde. No activity was observed towards propionaldehyde.
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