DNA Mismatch Repair Protein Msh-3 (msh-3) Neurospora Crassa Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA mismatch repair protein msh-3 (msh-3), Recombinant Protein
Full Product Name	Recombinant Neurospora crassa DNA mismatch repair protein msh-3 (msh-3), partial
Product Gene Name	msh-3 recombinant protein
Product Synonym Gene Name	msh-3
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	125,692 Da
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 Q7SD11
Species	Neurospora crassa (strain 24698 / 74-OR23-1A / CBS 708.71 / DSM 1257 / FGSC 987)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for msh-3 recombinant protein	MBS1330878 is a recombinant protein targeting msh-3. Also known as Recombinant Neurospora crassa DNA mismatch repair protein msh-3 (msh-3), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of msh-3 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 msh-3. It may not necessarily be applicable to this product.

NCBI GI #	85111307
NCBI GeneID	3880023
NCBI Accession #	XP_963874.1
UniProt Primary Accession #	Q7SD11
UniProt Related Accession #	Q7SD11
GenBank Nucleotide #	XM_958781.2
NCBI Official Full Name	DNA mismatch repair protein Msh3
NCBI Official Symbol	msh3
UniProt Protein Name	DNA mismatch repair protein msh-3

UniProt Synonym Protein Names	MutS protein homolog 3
Protein Family	DNA mismatch repair protein
UniProt Gene Name	msh-3
NCBI Protein Information	DNA mismatch repair protein Msh3
UniProt Comments for msh-3	Component of the post-replicative DNA mismatch repair system (MMR). Heterodimerizes with msh-2 to form MutS beta, which binds to DNA mismatches thereby initiating DNA repair. Msh-3 provides substrate-binding and substrate specificity to the complex. When bound, the MutS beta heterodimer bends the DNA helix and shields approximately 20 base pairs. Acts mainly to repair insertion-deletion loops (IDLs) from 2 to 13 nucleotides in size, but can also repair base-base and single insertion-deletion mismatches that occur during replication. After mismatch binding, forms a ternary complex with the MutL alpha heterodimer, which is thought to be responsible for directing the downstream MMR events, including strand discrimination, excision, and resynthesis. ATP binding and hydrolysis play a pivotal role in mismatch repair functions ().
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