DNA Integrity Scanning Protein Disa (disA) Frankia Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA integrity scanning protein DisA (disA), Recombinant Protein
Full Product Name	Recombinant Frankia sp. DNA integrity scanning protein DisA (disA)
Product Gene Name	disA recombinant protein
Product Synonym Gene Name	disA
Sequence	MAGPPGDDIF RATLAAVAPG TPFRDGLERI LRGHTGALIV LGHDKVVEGL CTGGFELDVE FSATRLRELA KMDGAIVLSS DLQRIVRAAV HLVPDPTVPT EESGTRHRTA ERVAKQAEFP VISVSQSMHI IALYVAGRRY VLDGSAAILS RANQALATLE RYKLRLDEVA GTLSALEIED LVTVRDAISV SQRLEMVRRI ADEIEGYVVE LGTDGRLLSL QLEELMAGVE TERELTVRDY LPIGSKAGTP AQVLGELSAM SPTDLLDLTV LARVIGFSGG ADILDRQISP RGYRMLAKVP RLPRMVVDRL VDHFGTLQKL LAAGVDDLQA VDGVGETRAR AVREGLSRLA ESSILERYV
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	38,891 Da
Sequence Positions	1-359, 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 Q2J537
Species	Frankia sp. (strain CcI3)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for disA recombinant protein	MBS1357181 is a recombinant protein targeting disA. Also known as Recombinant Frankia sp. DNA integrity scanning protein DisA (disA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of disA 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 disA. It may not necessarily be applicable to this product.

NCBI GI #	499757879
NCBI Accession #	WP_011438613.1
UniProt Primary Accession #	Q2J537
GenBank Nucleotide #	WP_011438613.1

NCBI Official Full Name	MULTISPECIES: dna integrity scanning protein disa
UniProt Protein Name	DNA integrity scanning protein DisA
UniProt Synonym Protein Names	Cyclic di-AMP synthase
Protein Family	DNA integrity scanning protein
UniProt Gene Name	disA
UniProt Synonym Gene Names	c-di-AMP synthase
UniProt Comments for disA	Participates in a DNA-damage check-point that is active prior to asymmetric division when DNA is damaged. DisA forms globular foci that rapidly scan along the chromosomes during sporulation, searching for lesions. When a lesion is present, DisA pauses at the lesion site. This triggers a cellular response that culminates in a temporary block in sporulation initiation.
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