DNA Protection During Starvation Protein (dps) Shigella Dysenteriae Serotype 1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	DNA protection during starvation protein (dps), Recombinant Protein
Full Product Name	Recombinant Shigella dysenteriae serotype 1 DNA protection during starvation protein (dps)
Product Gene Name	dps recombinant protein
Product Synonym Gene Name	dps
Sequence	STAKLVKSKA TNLLYTRNDV SDSEKKATVE LLNRQVIQFI DLSLITKQAH WNMRGANFIA VHEMLDGFRT ALIDHLDTMA ERAVQLGGVA LGTTQVINSK TPLKSYPLDI HNVQDHLKEL ADRYAIVAND VRKAIGEAKD DDTADILTAA SRDLDKFLWF IESNIE
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	18,695 Da
Sequence Positions	2-167, Full length
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 Q32I91
Species	Shigella dysenteriae serotype 1 (strain Sd197)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dps recombinant protein	MBS1341334 is a recombinant protein targeting dps. Also known as Recombinant Shigella dysenteriae serotype 1 DNA protection during starvation protein (dps). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dps 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 dps. It may not necessarily be applicable to this product.

NCBI GI #	446022945
NCBI Accession #	WP_000100800.1
UniProt Primary Accession #	Q32I91
GenBank Nucleotide #	WP_000100800.1
NCBI Official Full Name	MULTISPECIES: DNA starvation/stationary phase protection protein

UniProt Protein Name	DNA protection during starvation protein
Protein Family	Dehydrodolichyl diphosphate synthase
UniProt Gene Name	dps
UniProt Comments for dps	During stationary phase, binds the chromosome non-specifically, forming a highly ordered and stable dps-DNA co-crystal within which chromosomal DNA is condensed and protected from diverse damages. It protects DNA from oxidative damage by sequestering intracellular Fe2+ ion and storing it in the form of Fe3+ oxyhydroxide mineral, which can be released after reduction. One hydrogen peroxide oxidizes two Fe2+ ions, which prevents hydroxyl radical production by the Fenton reaction. Dps also protects the cell from UV and gamma irradiation, iron and copper toxicity, thermal stress and acid and base shocks. Also shows a weak catalase activity.
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