RNA Polymerase Sigma-54 Factor (rpoN) Rhodobacter Sphaeroides Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNA polymerase sigma-54 factor (rpoN), Recombinant Protein
Full Product Name	Recombinant Rhodobacter sphaeroides RNA polymerase sigma-54 factor (rpoN)
Product Gene Name	rpoN recombinant protein
Sequence	MDMMQFQRQT TQLAMTQRMQ ESLRILQMSN ADLADYLTAQ ALENPCLEVR VPEGASVAPA LPSRGIQAGL DRDAFATVEG QPPSLLAHVE AQIDLAFFDP GDRRTALAFA EALEPSGWLG QPVSEVAAAA EVEEEEALVI LERLQALEPA GLFARSLAEC LALQLEDLGL LTWELRTMLD HLPLLAEGRI ADLARRCDCE PEHIRENLAL IRSLSPKPGE AFAADRTPIQ PPDVRVLRGP EGWEVELTRA QLPRIRVSEA GDTGDRQADA WLARARSQAR WLERAVERRQ ATLLRTAVCL VRHQADFLDQ GPRALRPLSM EEVALELDLH PSTISRATAT RLIETPRGLI PLRAFFSRSV SSDGPEAPQS QDALMALVRE IIAREDRTKP FSDDAIVKQA KLAGAVLARR TVTKYRETLG IPSSYDRKRA AAAA
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	47,871 Da
Sequence Positions	1-434, 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 Q01194
Species	Rhodobacter sphaeroides (Rhodopseudomonas sphaeroides)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rpoN recombinant protein	MBS1007808 is a recombinant protein targeting rpoN. Also known as Recombinant Rhodobacter sphaeroides RNA polymerase sigma-54 factor (rpoN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rpoN 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 rpoN. It may not necessarily be applicable to this product.

NCBI GI #	499657561
NCBI Accession #	WP_011338295.1
UniProt Primary Accession #	Q01194
GenBank Nucleotide #	WP_011338295.1
NCBI Official Full Name	RNA polymerase sigma-54 factor

UniProt Protein Name	RNA polymerase sigma-54 factor
Protein Family	DNA-directed RNA polymerase
UniProt Gene Name	rpoN
UniProt Comments for rpoN	Sigma factors are initiation factors that promote the attachment of RNA polymerase to specific initiation sites and are then released. This sigma factor is responsible for the expression of the nitrogen fixation genes. The open complex (sigma-54 and core RNA polymerase) serves as the receptor for receipt of the melting signal from the remotely bound activator protein NifA for the expression of the nitrogen fixation proteins.
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