

Transcription Termination/Antitermination L Factor Recombinant Protein | NusA recombinant protein

Recombinant E Coli Transcription Termination/Antitermination L Factor

CATALOG # AAA38635	HOST E Coli
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PRODUCT SYNONYMS

Transcription Termination/Antitermination L Factor; Recombinant E Coli Transcription Termination/Antitermination L Factor; NusA E.Coli; Transcription Termination/Antitermination L Factor E.Coli Recombinant; Transcription elongation protein nusA; N utilization substance protein A; L factor; nusA; ECK3158; JW3158; b3169; NusA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	NusA protein solution contains 1x PBS pH-7.4. Sterile Filtered colorless solution.
Sequence	MNKEILAVVE AVSNEKALPR EKIFEALES LATATKKYE QEIDVRVQID RKS GDFDTR RWLVVDEV TQ PTKEITLEAA RYEDESLNLG DYVEDQIESV TFDRIITQTA KQVIVQKVRE AERAMVVDQF REHEGEIITG VVKVNRDNI SLDLGNNAEA VILREDMLPR ENFRPGDRVR GVLYSVRPEA RGAQLFVTRS KPEMLIELFR IEVPEIGEEV IEIKAAARDP GSRAKIAVKT NDKRIDPVGA CVGMRGARVQ AVSTELGGER IDIVLWDDNP AQFVINAMAP ADVASIVVDE DKHTMDIAVE AGNLAQAIGR NGQNVRLASQ LSGWELNVMT DDLQAKHQAE AHAAIDTFTK YLDIDEDFAT VLVEEGFSTL EELAYVPMKE LLEIEGLDEP TVEALRERAK NALATIAQAQ EESLGDNKPA DDLNLEGVD RDLAFKLAAR GVCTLEDLAE QGIDDLADIE GLTDEKAGAL IMAARNICWF GDEA
Sequence Length	495

ADDITIONAL INFORMATION

Related Product Information for NusA recombinant protein	Description: NusA Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 495 amino acids (1-495a.a.) and having a molecular mass of 54 kDa. Introduction: NusA is an important player in both prevention and enhancement of transcriptional termination. NusA is important both in Rho-dependent and intrinsic termination, as well as in lambda and other phage antitermination systems. The NusA gene was first identified by isolation of the nusA^I mutation, which limits bacteriophage-λ growth by preventing the antitermination activity of the λ N protein. NusA plays a role in transcriptional antitermination in the cell. It has been shown to specifically aid in read-through of the RNA polymerase genes rpoB and rpoC, as well as in successful synthesis of the ribosomal RNA genes. Additionally to its anti-termination role, NusA is needed for both Rho-dependent and intrinsic transcriptional termination. NusA is obligatory for Rho-dependent termination in lambda phage and in the cell. NusA plays a role in intrinsic termination and the inhibition of RNA elongation. However NusA interacts with all three subunits of RNA polymerase, its termination activity primarily depends on its interaction with the carboxy-terminus of RpoA. NusA induces conformational change in RNA polymerase & prevents RNA interaction with RpoA. This binding sequentially activates NusA, allowing it to bind RNA and promote formation of hairpins at intrinsic termination sites. NusA binds Rho, and participates with sigma70 for binding to the core RNA polymerase complex. NusA does not compete with NusG for binding to either Rho or the polymerase, despite modulating the same process as NusG in both cases.
Product Categories/Family for NusA recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	16131061
NCBI GeneID	947682
NCBI Accession #	NP_417638.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P0AFF6; P03003; Q2M941
Molecular Weight	54,871 Da
NCBI Official Full Name	transcription termination/antitermination L factor
NCBI Official Symbol	nusA
NCBI Official Synonym Symbols	ECK3158; JW3138
NCBI Protein Information	transcription termination/antitermination L factor
UniProt Protein Name	Transcription termination/antitermination protein NusA
UniProt Gene Name	nusA
UniProt Entry Name	NUSA_ECOLI

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/nusa-recombinant-protein-e-coli/38635>