

Recombinant E.coli NusA protein

Catalog Number: NUS0801

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-495aa

UniProt No.

P0AFF6

NCBI Accession No.

AAC76203

Alternative Names

Transcription termination/antitermination L factor, ECK3158, JW3158, Transcription termination/antitermination L factor, NusA, Transcription termination/antitermination L factor

PRODUCT SPECIFICATION

Molecular Weight

54 kDa (495aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 95% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

NusA is a key component in both Prevention and enhancement of transcriptional termination. It is important in both Rho-dependent and intrinsic termination, as well as in lambda and other phage antitermination systems. The gene was first identified by isolation of the nusA1 mutation, which restricts bacteriophage lambda growth by preventing the antitermination activity of the lambda N protein. NusA is involved 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

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well as in successful synthesis of the ribosomal RNA genes. Recombinant NusA was expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

MNKEILAVVE AVSNEKALPR EKIFEALESA LATATKKKYE QEIDVRVQID RKSGDFDFTFR RWLVVDEVTVQ PTKEITLEAA RYEDESLNLG DYVEDQIESV TFDRIITQTA KQVIVQKQVRE AERAMVVDQF REHEGEIITG VVKVNRDNI SLDLGNNAEA VILREDMLPR ENFRPGDRVR GVLYSVRPEA RGAQLFVTRS KPEMLIELFR IEVPEIGEEV IEIKAAARDP GSRAKIAVKT NDKRIDPVGA CVGMRGARVQ AVSTELGGER IDIVLWDDNP AQFVINAMAP ADVASIVVDE DKHTMDIAVE AGNLAQAIGR NGQNVRLASQ LSGWELNVMT VDDLQAKHQA EAHAAIDTFT KYLDIDEDFA TVLVEEGFST LEELAYVPMK ELLEIEGLDE PTVEALRERA KNALATIAQA QEESLGDNKP ADDLLNLEGV DRDLAFKLAA RGVCTLEDLA EQGIDDLADI EGLTDEKAGA LIMAARNICW FGDEA

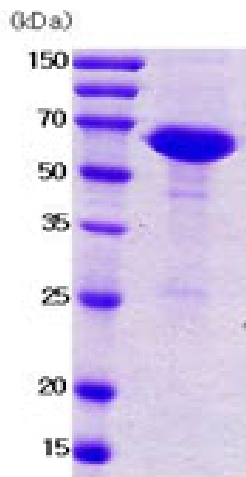
General References

Carlomagno MS., et al. (2003) Gene. 308:115-28.

Gusarov I., . (2001) Cell. 107(4):437-49.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)