Recombinant e.coli rnhA protein

Catalog Number: ATGP1173

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-155aa

UniProt No.
P0A7Y4

NCBI Accession No.
NP_414750

Alternative Names
Ribonuclease HI degrades RNA of DNA-RNA hybrids., Ribonuclease HI, degrades RNA of DNA-RNA hybrids., cer, dasF, ECK0214, herA, JW0204, rnh, sdrA, sin

PRODUCT SPECIFICATION

Molecular Weight
20 kDa (178aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

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
rnhA is an endonuclease that specifically degrades the RNA of RNA-DNA hybrids. Localized to the nucleus, this protein mediates the removal of Okazaki fragment RNA primers that are present on the lagging strand during DNA replication. rnhA catalyzes the endonucleolytic cleavage of RNA to a 5'-phosphomonoester and is able to bind magnesium or manganese as cofactors. Recombinant e. coli rnhA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Recombinant e.coli rnhA protein

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Amino acid Sequence

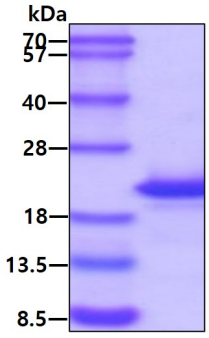
<MGSSHHHHHH SSGLVPRGSH MGS>MLKQVEI FTDGSCLGNP GPGGYGAILR YRGREKTFSA GYTRTTNNRM ELMAAIVALE ALKEHCEVIL STDSQYVRQG ITQWIHNWKK RGWKTADKKP VKNVDLWQRL DAALGQHQIK WEWVKGHAGH PENERCDELA RAAAMNPTLE DTGYQVEV

General References

Nowotny M., et al. (2007) Mol Cell. 28(2):264-76.
Ten Asbroek AL., et al. (2002) Eur J Biochem. 269(2):583-92.

DATA

SDS-PAGE



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