

Recombinant E.coli RnhA, His-tagged

Cat. No. rnhA-1012E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant e.colirnhA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	E.coli
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT.
Molecular Weight	20 kDa (178aa), confirmed by MALDI-TOF
Purity	> 95 % by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHH SSGLVPRGSH MGSMLKQVEI FTDGSC LGNP GPGGYGAILR YRGREKTFSA GYTRTTNNRM ELMAAIVALE ALKEHCEVIL STDSQYVRQG ITQWIHNWKK RGWKTADKKP VKNVDLWQRL DAALGQHQIK WEWVKGHAGH PENERCDELA RAAAMNPTLE DTGYQVEV

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Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

[rnhA](#) ribonuclease HI, degrades RNA of DNA-RNA hybrids [*Escherichia coli* str. K-12 substr. MG1655]

Official Symbol

[rnhA](#)

Synonyms

[rnhA](#); ribonuclease HI, degrades RNA of DNA-RNA hybrids; [cer](#); [dasF](#); [ECK0214](#); [herA](#); [JW0204](#); [rnh](#); [sdrA](#); [sin](#); EC 3.1.26.4; RNase HI, degrades RNA of DNA-RNA hybrids, participates in DNA replication

Gene ID

[946955](#)

Protein Refseq

[NP_414750](#)

Function

DNA-dependent DNA replication; A catabolic process; proteolysis



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