

## OriGene Technologies, Inc.

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Schillerstr. 5

## AR39113PU-L E. coli Ribonuclease HI / rnhA (1-155, His-tag) - Purified

Alternate names: RNase H, RNase HI, Ribonuclease H, dasF, herA, rnh, sdrA

Quantity: 0.5 mg

**Concentration:** 1.0 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: POA7Y4

NCBI: <u>AP\_000869</u>

 GeneID:
 946955

 Species:
 E. coli

Source: E. coli

Format: State: Liquid purified protein

Purity: >95%

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT

Description: Recombinant e.coli rnhA protein, fused to His-tag at N-terminus, was expressed in

E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMLKQVEI FTDGSCLGNP GPGGYGAILR YRGREKTFSA GYTRTTNNRM ELMAAIVALE ALKEHCEVIL STDSQYVRQG ITQWIHNWKK RGWKTADKKP VKNVDLWQRL DAALGQHQIK WEWVKGHAGH PENERCDELA RAAAMNPTLE DTGYQVEV

Molecular weight: kDa (178aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for

longer.

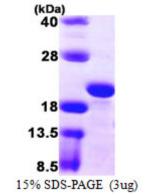
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: Nowotny M., et al. (2007) Mol Cell. 28(2):264-76.

Ten Asbroek AL., et al. (2002) Eur J Biochem. 269(2):583-92.







rnhA, 1-155 aa, E.coli, His-tagged

