

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

Alternate names:	RNase H, RNase HI, Ribonuclease H, dasF, herA, rnh, sdrA
Quantity:	0.1 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:	P0A7Y4
NCBI:	AP_000869
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: <u>MGSSHHHHHH SSGLVPRGSH MGSMLKQVEI</u> FTDGSLGNP 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.

Pictures:

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

