

Active Recombinant Human RNASEH1 protein, His-tagged

Cat. No. RNASEH1-4892H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RNASEH1 fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	RNHA is an endonuclease which specifically degrades the RNA of RNA-DNA hybrids. Localized to the nucleus, the RNHA protein mediates the removal of Okazaki fragment RNA primers which are present on the lagging strand during DNA replication. RNHA catalyzes the endonucleolytic cleavage of RNA to a 5'-phosphomonoester and is capable of binding magnesium or manganese as cofactors.
Form	0.05M Tris, 0.1M NaCl, 2mM DTT, pH8.7
Bio-activity	DNA-RNA hybrid cleavage: RNA 5'gacaccugauucugauuc; DNA 5'gaatcaggtgtc. Buffer: 50mM Tris-pH7.9, 50mM NaCl, 5mM MgCl ₂ , 1mM DTT, 20ug/ml BSA, 4% glycerol. Analysis by 12% TBE gel. Assays Pending.
Molecular Mass	approx. 33kD
Purity	>95%
Applications	RNase H1 assays; Elisa/Western Blot; DNA/RNA hybrid Assay
Stability	At least 6 months at -75 centigrade

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Storage	Store at -75 centigrade
Concentration	0.1mg/ml
GENE INFORMATION	
Gene Name	RNASEH1 ribonuclease H1 [Homo sapiens]
Official Symbol	RNASEH1
Synonyms	RNASEH1; ribonuclease H1; RNase H1; ribonuclease H type II; RNH1; H1RNA;
Gene ID	246243
mRNA Refseq	NM_002936
Protein Refseq	NP_002927
MIM	604123
UniProt ID	O60930
Chromosome Location	2p25
Pathway	DNA replication, organism-specific biosystem; DNA replication, conserved biosystem;
Function	RNA binding; endonuclease activity; hydrolase activity; magnesium ion binding; nucleic acid binding; protein homodimerization activity; ribonuclease H activity; ribonuclease activity;

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