

Ribonuclease A (RNase A) Active Protein | RNase A active protein

Active Ribonuclease A (RNase A)

CATALOG # AAA150337	HOST E. coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Ribonuclease A (RNase A); Active Ribonuclease A (RNase A); RNase A active protein

PRODUCT SPECIFICATIONS

Host	E. coli
Form/Format	10mM Tris, 15mM NaCl, pH 7.5.
Concentration	Original Concentration: 500ug/mL (varies by lot)
Applicable Applications for RNase A active protein	Activity Assay, Cell Culture
Organism Species	Homo sapiens (Human)
Source	Prokaryotic expression.
Residues	Lys29~Thr156
Tags	N-terminal His-tag
Traits	Liquid
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

$$\frac{\Delta 260 \times 1000 \times N}{15 \text{ mg enzyme}}$$

Units/mg=

1000=Absorbance conversion factor with 0.001;

N=Absorbance conversion factor;

15= Time of assay (inminutes)

The specific activity of recombinant human RNASEA is 1.3×10⁶U/mg

Application Data

Activity: Ribonuclease A (RNASEA) is a member of the pancreatic-type of secretory ribonucleases, a subset of the ribonuclease A superfamily. RNASEA cleaves RNA on the 3' side of pyrimidine nucleotides. The protein acts to degrade ds-RNA over ss-RNA. The activity of recombinant human RNASEA measured by cleaving yeast RNA. One unit of the enzyme causes an increase in absorbance of 0.001 at 260 nm in 15 min when yeast RNA is hydrolyzed at 50°C and pH 5.0. Pipette 50ul of respective recombinant human RNASEA dilution into 100ul 0.1M sodium acetate buffer, pH 5.0, then add 150ul of 0.15mg/ml yeast RNA. The blank tube use 50ul ultrapure water instead of enzyme dilution. All the all tubes Incubate at 50°C for 15 minutes. Read 260 versus blankCalculation

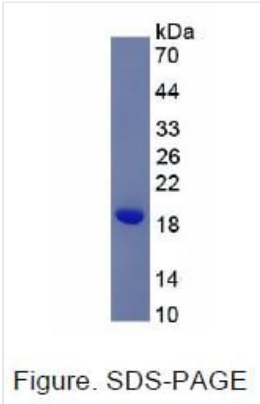


Figure. SDS-PAGE

SDS-PAGE

Sample: Active recombinant RNASE1, Human

KE SRAKKFQRQH MDSDSPSSS
STYCNQMRR RNMTQGRCKP VNTFVHEPLV DVQNVCFQEK VTCKNGQGNC
YKNSSMHIT DCRLTNGSRY PNCAYRTSPK ERHIIVACEG SPYVPVHFDA
SVEDST

Sequence

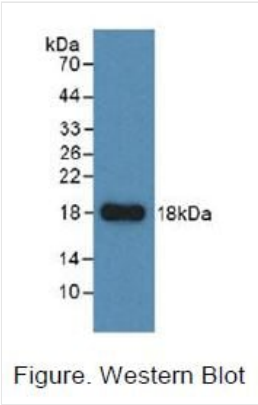
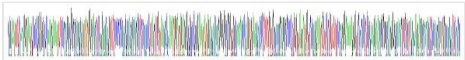


Figure. Western Blot

WB (Western Blot)

Western BlotSample: Recombinant RNASE1, Human;Antibody: Rabbit Anti-Hu RNASE1 Ab



Gene Sequence

Gene Sequencing (extract

NCBI AND UNIPROT INFORMATION

Molecular Weight	Predicted isoelectric point: 8.8
	Predicted Molecular Mass: 16.1kDa
	Accurate Molecular Mass: 18kDa as determined by SDS-PAGE reducing conditions.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/ribonuclease-a-rnase-a/150337>