

## Product Data Sheet

Product Name: RNase A (10mg/mL, DNase free)

Cat. No.: GE10002

### Chemical Properties

Cas. No. 9001-99-4

Formula M.Wt ~13700

Solubility Storage buffer is 50 mM Tris-HCl (pH 7.4) and 50% (v/v) glycerol Storage Store at -20°C, Need to be dry

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Ribonuclease A (EC 3.1.27.5) cleaves RNA 3' to pyrimidines and actively cleaves RNA at every pyrimidine residue. Ribonuclease A catalyzes the hydrolysis of single stranded RNA in the absence of metal ions or cofactors.

A major application of RNase A is the removal of RNA from plasmid DNA preparations.

References:

[1]. Thakur P, et al. Locating chemical modifications in RNA sequences through ribonucleases and

**Caution: Product has not been fully validated for medical applications. For research use only.**

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LC-MS based analysis. Methods Enzymol. 2021;658:1-24.

[2]. Brown D, Pasloske BL. Ribonuclease-resistant RNA controls and standards. Methods Enzymol. 2001;341:648-54.

[3]. Wallace JA, Shen JK. Predicting pKa values with continuous constant pH molecular dynamics. Methods Enzymol. 2009;466:455-75.

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