

Datasheet for ABIN3188207

**RNase III, E. coli**

Overview

Quantity: 100 U

Application: RNA Modification (RNA Mod)

Product Details

Characteristics: RNase III, E.coli is an endoribonuclease that specifically digests dsRNA into dsRNA fragments of 12-15 base pairs that have two or three nucleotide 3'-overhangs with 5' phosphate and 3' hydroxyl termini.

Components: Enzyme supplied with 10X Reaction Buffer

Unit Definition: One unit is defined as the amount of RNase III, E. coli that is required to hydrolyze 1 nmol of poly(A):poly(U) dsRNA in 30 minutes at 37°C in 1X RNase III, E.coli Reaction Buffer.

Application Details

- Comment:
- dsRNA digestion to short dsRNA fragments
  - Useful for RNA processing, maturation and structure studies
  - Directed cleavage of RNA
  - siRNA preparation for RNA interference in mammalian cells

Restrictions: For Research Use only

Handling

Concentration: 1 U/μL

Buffer: 50 mM Tris-HCl (pH 7.5), 0.5M NaCl, 1 mM DTT, 0.1 mM EDTA, 0.1 % Triton® X-100 and 50 % (v/v) Glycerol.

Storage: -20 °C

## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)