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RNase III

1 Components

Component	HY-KE7056-100 U
RNase III	100 U
10× RNase III Reaction Buffer	100 μL

2 Introduction

RNase III is a specific exonuclease expressed in *E.coli* that can cleave dsRNA into 12-15 bp dsRNA fragments.

3 Properties

Source	*E.coli*
Buffer	20 mM Tris-HCl, 500 mM NaCl, 0.5 mM EDTA, 0.5 mM DTT, 50% Glycerol, pH 8.0
Enzyme activity	≥ 2 U/μL
Unit Definition	One unit refers to the amount required to completely degrade 1 μg dsRNA in 60 min at 37°C.

4 General Protocol

1. Prepare the reaction system according to the table below:

Components	Volume
dsRNA	15 μg
10× RNase III Reaction Buffer	5 μL
RNase III	15 U
ddH_2O	To 50 μL

2. Incubate at 37°C for 0.5-1 h.

5 Storage

-20°C, 1 year

6 Precautions

1. Avoid repeated freezing and thawing.
2. This product is for R&D use only, not for drug, household, or other uses.
3. For your safety and health, please wear a lab coat and disposable gloves to operate.