

Klenow Fragment(3'→5' exo-) (5 U/μL)

Product Description

Klenow (3'→5'exo-) DNA polymerase is a proteolytic product of *E. coli* DNA polymerase I, retaining the DNA polymerase activity of DNA polymerase I but losing the 5'→3' exonuclease activity. This enzyme has further removed the 3'→5' exonuclease activity through mutation. It can be used for DNA labeling with random priming and DNA sequencing by the dideoxy method, among other applications.

Specifications

Cat.No.	14460ES70 / 14460ES80 / 14460ES90
Size	200 U / 1,000 U / 5,000 U
Source	<i>E. coli</i>
Molecular Weight	68.1 KDa
Concentration	5 U/μL
Unit Definition	One unit is defined as the amount of enzyme that incorporates 10 nmol of dNTP into acid-insoluble material within 30 minutes at 37°C

Components

Components No.	Name	14460ES70	14460ES80	14460ES90
14460-A	Klenow Fragment(3'→5' exo-) (5 U/μL)	40 μL	200 μL	1 mL
14460-B	10× Klenow Fragment (exo-) Buffer	250 μL	1.25 mL	5×1.25 mL

Storage

This product should be stored at -25~-15°C for 2 years.

Product Application

1. Random primer labeling.
2. Sanger dideoxy DNA sequencing.
3. Synthesis of the second strand of cDNA.
4. Synthesis of the second strand in mutagenesis reactions.

Notes

1. This product is for research use only.
2. Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety.