

Recombinant Alkaline Phosphatase

Product information

| Product No. | Size | Activity |
|--------------|------|-------------|
| YJ-O-052-50 | 50U | 1U/ μ l |
| YJ-O-052-250 | 250U | 1U/ μ l |
| YJ-O-052-1 | 1KU | 1U/ μ l |

Product description

Recombinant Alkaline Phosphatase from YinjiaBio is derived from the alkaline phosphatase gene of *E. coli* and expressed in *E. coli*. It can non-specifically catalyze the dephosphorylation of 5' and 3' ends of DNA and RNA.

- Unit definition: One unit (U) is defined as the amount of enzyme required to completely degrade 1 μ mol of pNPP in a 1 ml reaction system at 37°C within 1 minute.
- Storage solution: 20 mM Tris-HCl, 1 mM MgSO₄, 0.1 mM ZnSO₄, 120 mM NaCl, pH=7.4.

Product components

| Components | Size1 | Size2 | Size3 |
|--|-------|-------|---------|
| Recombinant Alkaline Phosphatase | 50U | 250U | 1KU |
| 10× Alkaline Phosphatase Reaction Buffer | 1.0ml | 1.0ml | 1.0ml*2 |

Transportation and storage

- Storage: This product should be stored at -20°C, and can be stored for at least 12 months.
- Transportation: Dry ice.

Product application

- Preventing DNA or RNA circularization.
- Dephosphorylation of the 5'-terminus of nucleic acids prior to kinase forward reactions.

Usage (for reference only)

- Prepare the following reaction system:

| Components | Amount |
|--|-----------|
| DNA | 1 pmol |
| Recombinant Alkaline Phosphatase | 2 μ l |
| 10× Alkaline Phosphatase Reaction Buffer | 1 μ l |

Water

Up to 20 μ l

- Incubate at 37°C for 30 minutes.

Precaution

- Try to avoid freeze-thaw cycles of this product after receipt;
- Please wear lab coat and disposable gloves when using;
- This product should not be used directly for clinical diagnosis and treatment.