

Pyrophosphatase, Inorganic (yeast) (0.1 U/μl)

Catalog # PYE-S5143



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Product Details

This product is a purified recombinant inorganic pyrophosphatase (PPase, Yeast) in Escherichia coli. Inorganic pyrophosphatase catalyzes the hydrolysis of inorganic pyrophosphate to form orthophosphate: $P_2O_7^{4-} + H_2O + PPase \rightarrow 2HPO_4^{2-}$ PPase can hydrolyze inorganic pyrophosphate generated with the reaction to avoid its inhibition of the reaction system. It can be used to increase RNA yield in reverse transcription reactions.

Application

Increase RNA yield in transcription reaction;
Enhance DNA replication;
Hydrolyze inorganic pyrophosphate.

Unit Definition

One unit is the amount of enzyme that will generate 1 μmol of phosphate per minute from inorganic pyrophosphate under standard reaction conditions (at 25°C in 100 mM Tris-HCl, pH 7.2, 2 mM MgCl₂ and 2 mM PPi in a reaction volume of 0.5 ml for 10 minute).

Purity

>95% as determined by SDS-PAGE.

Notes

This product is active in a variety of reaction buffers and can usually be added directly to amplification experiments such as HDA and LAMP;
The optimal reaction temperature of this product is 25 °C, which is active at 16~37 °C, and 65 °C for 10min can inactivate it.

Formulation

Supplied as 0.2 μm filtered solution in 20 mM Tris, 100 mM KCl, 0.1 mM EDTA, 1 mM DTT, pH8.0 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

This product is stable after storage at:

- This product is stable for up to 12 months at -20°C from date of receipt.

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