

# **Inorganic Pyrophosphatase (Yeast)**

Catalog Number LDG0007RI

Package 10 U / Customized package

For full product information, images and publications, please visit our website.



## **Overview**

#### **Description**

Inorganic pyrophosphate (PPi) is generated as a reaction byproduct in many biosynthetic reactions which utilize ATP, including in vitro transcription and DNA polymerization. Inorganic pyrophosphatase (PPase) catalyzes the hydrolysis of inorganic pyrophosphate to orthophosphate ( $P_2O_7^{-4} + H_2O + PPase \rightarrow 2HPO_4^{-2}$ ). PPase requires divalent metal cation (Mg<sup>2+</sup>) for its enzymatic activity.

#### **Product Note**

Inorganic Pyrophosphatase (Yeast) requires divalent metal cation (Mg<sup>2</sup> +) for its enzymatic activity. This enzyme is widely used in RNA IVT reaction.

# **Specifications**

Escherichia coli

#### Concentration

 $0.1 U/\mu L$ 

#### **Purity**

>98% as determined by SDS-PAGE analysis.

## **Application**

In vitro transcription, RNA amplification, miRNA and siRNA synthesis

#### Buffer

Inorganic pyrophosphatase is supplied in 20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 mM DTT and 50% glycerol.

#### **Unit Definition**

One unit is defined as the amount of the enzyme hydrolysis 1  $\mu$ mol of inorganic pyrophosphate in 1 minutes at 25°C.

Tainan Headquarter

**Innovation & Research Center** 

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**Form** 

Liquid

## Instruction

## **Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

# **Stability & Storage**

This product is stable after storage at:

 -20°C or -80°C for 12 months under sterile conditions from date of receipt.

Avoid repeated freeze/thaw cycles.

**Disclaimer:** For Research Use or Further Manufacturing Only.