

# 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 ( $Mg^2 +$ ) for its enzymatic activity. This enzyme is widely used in RNA IVT reaction.

Specifications		
Expression System	Application	
Escherichia coli	In vitro transcription, RNA amplification, miRNA and siRNA synthesis	
Concentration	Storage Buffer	
0.1 U/µL	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.	
Purity	Unit Definition	
>98% as determined by SDS-PAGE analysis.	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	CLD Center
& +886-6-2536677	& +886-2-27065528	& +886-6-2536677
M bd@leadgene.com.tw		



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.

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