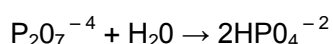


## Pyrophosphatase, Inorganic (E. coli)

### Introductions

Inorganic pyrophosphatase (PPase) catalyzes the hydrolysis of inorganic pyrophosphate to form orthophosphate.



### Storage

Components	Units	Volume
Pyrophosphatase, Inorganic (E. coli)	10 units	0.1 mL (100 units/mL)
	50 units	0.5 mL (100 units/mL)
Stored at -20°C for 24 months.		

### Source

PPase is prepared from an *E. coli* strain containing a clone of the *E. coli* inorganic pyrophosphatase gene.

### Applications

Increasing RNA yield in transcription reaction; enhancing DNA replication.

Supplied in 20 mM Tris-HCl, 100 mM NaCl, 1 mM Dithiothreitol, 0.1 mM EDTA, 50% Glycerol, pH 8.0.

Store at -20°C.

### Usage

Use 1–3 units per ml high yield in vitro RNA synthesis reaction.

---

## Heat Inactivation

No.

## Unit Definition

One unit is the amount of enzyme that will generate 1  $\mu\text{mol}$  of phosphate per minute from inorganic pyrophosphate under standard reaction conditions (a 10-minute reaction at 25°C in 20 mM Tris-HCl, pH 8.0, 2 mM  $\text{MgCl}_2$  and 2 mM  $\text{PPi}$ ).



**APEx BIO Technology**

**[www.apexbt.com](http://www.apexbt.com)**

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)

