

## DATA SHEET

Version:  
Revision date:

### 1. Identification

<b>Product name</b>	<b>Inorganic Pyrophosphatase</b> (0,1 U/ $\mu$ L) 50U
<b>Cat. No</b>	EZ0035

### 2. Description

Inorganic Pyrophosphatase (PPase) from Escherichia coli is a recombinant enzyme produced in E. coli. It catalyzes the hydrolysis of inorganic pyrophosphate (PPi) to form orthophosphate. PPase from E.coli is a thermostable enzyme (up 80°C) in presence of Mg<sup>2+</sup>.

### 3. Protein information

<b>Description</b>	Inorganic Pyrophosphatase (0,1 U/ $\mu$ L) 50U
<b>Purity</b>	$\geq$ 95% by SDS-PAGE
<b>Buffer</b>	20 mM Tris-HCl, pH 8.0, 2 mM MgCl <sub>2</sub> , 2 mM PPi
<b>Storage</b>	20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, pH=8
<b>Biological activity</b>	One unit is the amount of enzyme that will generate 1 $\mu$ mol of phosphate per minute from PPi under standard reaction conditions (10 minutes reaction at 25°C) in reaction buffer

### 4. Gene Information

<b>Synonyms</b>	PPase
<b>Official Symbol</b>	E-PPase
<b>Specie</b>	Escherichia coli
<b>Protein Family</b>	Bacterial and archae inorganic pyrophosphatases, hydrolases

### 5. Storage specifications

Store at -20°C. Avoid exposure to constant temperature changes

### 6. Applications

- RNA in vitro transcription (IVT) to reduce the inhibitory effects of PPi.
- mRNA-based Vaccines.
- RNA Labeling.
- Enhancement of DNA replication.



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### 7. Further information

- Product** This product is developed, designed and sold exclusively only for research purposes use.
- Use** The product was not tested for use in diagnostics or for drug development, nor is it suitable
- Limitations** for administration to humans or animals.
- Disclaimer** The information provided in this Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide and should not be taken as a warranty or quality specification. Canvax Reagents S.L.U. shall not be held liable for any damage resulting from handling or from contact with the above product.

