**Rev. 0**

# Inorganic Pyrophosphatase (*E. coli*) (PPase)

Catalog #MB7108-10, 0.1 mL
or
Catalog #MB7108-50, 0.5 mL

## Product Description

Inorganic pyrophosphatase (PPase) catalyzes the hydrolysis of inorganic pyrophosphate to form orthophosphate. PPase catalyzed reaction is $Mg^{2+}$-dependent. PPase is used for *in vitro transcription* (IVT) to increase RNA synthesis yield by removing the inhibitory PPi.

## Product Options

*Catalog #MB7108-10*

| Cat # | Component | Quantity | Concentration | Storage |
|---|---|---|---|---|
| MB7108-10 | Inorganic Pyrophosphatase (*E. coli*) | 1 x 0.1 mL | 100 U/ mL | -20ºC |

*Catalog #MB7108-50*

| Cat # | Component | Quantity | Concentration | Storage |
|---|---|---|---|---|
| MB7108-50 | Inorganic Pyrophosphatase (*E. coli*) | 1 x 0.5 mL | 100 U/ mL | -20ºC |

## Product Source

ScienCell's PPase with N-terminal His-tag was purified from a recombinant *E. coli* strain.

## Unit Definition

One unit is the amount of enzyme that will generate 1 µmol of phosphate per minute from inorganic pyrophosphate under reaction condition (37°C in 30 mM Tris-HCl, pH 8.5, 2 mM $MgCl_2$ and 2 mM PPi).

## Storage Buffer

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

## Quality Control

The purity of PPase was verified by SDS-PAGE. DNase activity was NOT detected by incubating each component of PPase with single-stranded and double-stranded DNA at 37 ºC for 24 hours.

## Product Use

ScienCell's PPase is for research use only. It is not approved for human or animal use, or for application in clinical or in vitro diagnostic procedures.

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**Shipping and Storage**

The product is shipped on dry ice. Upon receipt, store at -20ºC in a manual defrost freezer. Avoid repeated freeze-and-thaw cycles.