



Inorganic Pyrophosphatase (Yeast) (PPaseY)

Catalog #MB7108-Y-10, 0.1 mL

or

Catalog #MB7108-Y-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. Yeast Inorganic Pyrophosphatase is heat-sensitive and loses activity rapidly above 55 °C, avoid prolonged exposure to elevated temperatures.

Product Options

Catalog #MB7108-10

Cat #	Component	Quantity	Concentration	Storage
MB7108-Y-10	Inorganic Pyrophosphatase (yeast)	1 x 0.1 mL	100 U/ mL	-20°C

Catalog #MB7108-50

Cat #	Component	Quantity	Concentration	Storage
MB7108-Y-50	Inorganic Pyrophosphatase (yeast)	1 x 0.5 mL	100 U/ mL	-20°C

Product Source

ScienCell's PPaseY was purified from a recombinant *E. coli* strain.

Unit Definition

One unit is the amount of enzyme that will generate 1 μ mol 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 PPaseY was verified by SDS-PAGE. DNase activity was NOT detected by incubating each component of PPaseY with single-stranded and double-stranded DNA at 37 °C for 24 hours.

Rev. 0

Product Use

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

Shipping and Storage

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