

Inorganic Pyrophosphatase (Yeast)

Catalog # P9372

Size 10 mL

Specification

Product Description

Inorganic Pyrophosphatase (Yeast) is derived from a recombinant *E.Coli* strain carrying *Saccharomyces cerevisiae* ppa gene. The enzyme catalyzes the hydrolysis of inorganic pyrophosphate to form orthophosphate. $P_2O_7^{4-} + H_2O + PPase \rightarrow 2HPO_4^{2-}$ Inorganic Pyrophosphatase (yeast) could hydrolyze the inorganic pyrophosphate generated by nucleic acid amplification, in vitro transcription and other reactions, removing the inhibition of the inorganic pyrophosphate generated on the reaction system. The removal of pyrophosphate can shift the reaction equilibrium to the end of product formation, which is beneficial to increase the yield of synthetic product. RNA and DNA synthesis are examples of reactions that can be pulled far in the synthesis direction by the action of inorganic pyrophosphatase.

Theoretical MW (kDa)

71

Form

Liquid

Concentration

0.1 U/ μ L

Recommend Usage

In Vitro Transcription
The optimal working dilution should be determined by the end user.

Storage Buffer

20 mM Tris-HCl (pH 8.0), 100 mM KCl, 0.1 mM EDTA, 1 mM dithiothreitol, 50% glycerol

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- In vitro Transcription