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 $2HPO_4^{-2}$ 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/μL
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

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