



## Pyrophosphatase Inorganic

---

Pyrophosphatase Inorganic enzyme, recombinantly expressed in Yeast. It 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.

Cocentration: 0.1U/ $\mu$ L

Units/Pk: 10U/100 $\mu$ L; 50U/500 $\mu$ L; 100U/1mL

This product is produced by GMP process requirements while using Animal Origin Free (AOF) production process; and it is free from DNase & RNase contamination.

Catalog No.	56140005
Size	100 $\mu$ L / 250 $\mu$ L / 1mL
Product Category	mRNA Raw Material