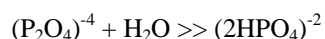


**Product:** *Thermus thermophilus* inorganic Pyrophosphatase  
**Catalog #:** 05-52162  
**Amount:** 100 U

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**DESCRIPTION:** Tth inorganic pyrophosphatase (PP1)-recombinant  
Form of the enzyme from the thermophilic eubacterium  
*Thermus thermophilus* strain HB8.  
This enzyme catalyzes the hydrolysis of inorganic pyro-  
Phosphate to form orthophosphate.



**CONCENTRATION:** 5 U/μl  
**UNIT DEFINITION:** One unit of activity is the amount of enzyme that will  
generate 40 nmoles of phosphate per minute from pyro-  
phosphate under standard reaction conditions  
(a 10 minute reaction at 72°C in 50mM Tricine, pH 8.5,  
1mM MgCl<sub>2</sub>, 0.32mM PPI, reaction volume of 0.5 ml)

**STORAGE & DILUTION BUFFER:** 50mM Tris-HCl, pH 8.0, 100mM NaCl, 0.01mM EDTA,  
0.1mM DTT, 50% Glycerol

**REACTION BUFFER (10X):** 50mM Tricine, pH 8.5, 1mM MgCl<sub>2</sub> or buffer for sequencing  
protocol

**APPLICATION:** PCR  
RT-PCR  
Sequencing

**QUALITY CONTROL:** Activity, SDS-PAGE purity, absence of endonucleases/nickases  
And exonucleases

**STORAGE:** -20°C (AVOID FREEZE & THAW CYCLES)

**RECOMMENDATION:** Usually during shipment, the liquid product will occasionally  
entrap in the cap of the vial, therefore we recommend to  
centrifuge the vial (low speed) to dislodge the liquid from the cap

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