

Inorganic Pyrophosphatase, Thermostable

CATALOG NO.:	M1233-100
AMOUNT:	100 µl
CONCENTRATION:	2U/µl
FORM:	Liquid
SOURCE:	The source of this protein is a recombinant <i>E.coli</i> strain encoding pyrophosphatase from <i>Thermococcus litoralis</i> .
DESCRIPTION:	Inorganic pyrophosphatase, Thermostable catalyzes the hydrolysis reaction of inorganic pyrophosphate to orthophosphate. $P_2O_7^{4-} + H_2O \rightarrow 2HPO_4^{2-}$.
ENZYME STORAGE BUFFER:	20 mM Tris-HCl, 100 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, pH 8.0 at 25°C.
ENZYME UNIT DEFINITION:	One unit is defined as the amount of enzyme needed to generate 1 µmol of phosphate in 1 minute from inorganic pyrophosphate under standard reaction conditions (a 10-minute reaction at 75°C in 50 mM Tricine [pH 8.5], 1 mM MgCl ₂ , 0.32 mM PPI, reaction volume of 0.5 ml).
STORAGE CONDITIONS:	Store at -20°C. Avoid repeated freeze-thaw cycles of all components to retain maximum performance. All components are stable for one year from the date of shipping when stored and handled properly.

RELATED PRODUCTS:

- PPA1, human recombinant (Cat# 7818)

FOR RESEARCH USE ONLY! Not to be used on humans.