

## Inorganic Pyrophosphatase from Escherichia coli, Recombinant

Cat. No. NATE-0355

Lot. No. (See product label)

## Introduction

Description	Pyrophosphatase (or inorganic pyrophosphatase) is an enzyme (EC 3.6.1.1) that catalyzes the conversion
	of one molecule of pyrophosphate to two phosphate ions. This is a highly exergonic reaction, and
	therefore can be coupled to unfavorable biochemical transformations in order to drive these
	transformations to completion. The functionality of this enzyme plays a critical role in lipid metabolism
	(including lipid synthesis and degradation), calcium absorption and bone formation, and DNA
	synthesis,as well as other biochemical transformations.

- **Applications** Inorganic pyrophosphatase (PPase) is a ubiquitous enzyme catalyzing the reaction PPi + H2O  $\rightarrow$  2Pi. It plays an important role in protein, RNA, and DNA synthesis.
- *Synonyms* Pyrophosphate phosphohydrolase; inorganic pyrophosphatase; EC 3.6.1.1; 9024-82-2; iphosphate phosphohydrolase

## **Product Information**

Species	Escherichia coli
Source	E. coli
Form	Lyophilized powder in Tris-buffered salts containing protease inhibitors
EC Number	EC 3.6.1.1
CAS No.	9024-82-2
Purity	> 90%
Activity	> 800 units/mg protein
Unit Definition	One unit will release 1.0 $\mu mole$ of inorganic orthophosphate per minute at pH 9 at 25°C.

## Storage and Shipping Information

Storage –20°C