

## 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.

ApplicationsInorganic 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 µmole of inorganic orthophosphate per minute at pH 9 at

25°C.

## Storage and Shipping Information

*Storage* –20°C

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