

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