

Native Bacillus stearothermophilus Inorganic Pyrophosphatase

Cat. No. NATE-0353

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

Source Bacillus stearothermophilus

Form lyophilized powder

EC Number EC 3.6.1.1

CAS No. 9024-82-2

Activity 15-25 units/mg protein (biuret)

Unit Definition One unit will liberate 1.0 µmole of inorganic orthophosphate per min at pH 9.0 at

50°C.

Storage and Shipping Information

Storage 2-8°C

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