

Native E. coli Inorganic Pyrophosphatase

Cat. No. NATE-1272

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 Increasing RNA yield in transcription reaction; enhancing DNA replication.

Synonyms Pyrophosphate phosphohydrolase; inorganic pyrophosphatase; EC 3.6.1.1; 9024-82-2; iphosphate

phosphohydrolase

Product Information

Source E. coli

Form 20 mM Tris-HCl, 100 mM NaCl, 1 mM Dithiothreitol, 0.1 mM EDTA, 50% Glycerol, pH 8.0 25°C. Store at

-20°C.

CAS No. 9024-82-2

Concentration 100 units/ml

Unit Definition One unit is the amount of enzyme that will generate 1 μ mol of phosphate per minute from inorganic pyrophosphate under standard reaction conditions (a 10 minute reaction at 25°C in 20 mM Tris-HCl, pH

1/1

8.0, 2 mM MgCl2 and 2 mM PPi).

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