

## Native *Thermococcus thio-reducens* Inorganic Pyrophosphatase

Cat. No. NATE-1255

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.

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

### Product Information

**Source** *Thermococcus thio-reducens*

**Form** Lyophilized powder

**CAS No.** 9024-82-2

**Molecular Weight** 20.9 kDa

**Purity** ~ 90% (SDS PAGE)

**Isoelectric point** 4.76

**Thermal stability** 25°C - 80°C

**Unit Definition** One unit is the amount of enzyme that will generate 1 µmol of phosphate per minute from inorganic pyrophosphate.

### Storage and Shipping Information

**Storage** at -20°C