Creative Enzymes®

Native Thermococcus thioreducens 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 thioreducens
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