

Bioactive

Inorganic Pyrophosphatase (Yeast)

Catalog # P8871

Size 10 Units

Specification

Product Description

Inorganic pyrophosphate (PPi) is generated as a reaction byproduct in many biosynthetic reactions which utilize ATP, including in vitro transcription and DNA polymerization. Inorganic pyrophosphatase (PPase) catalyzes the hydrolysis of inorganic pyrophosphate to orthophosphate ($P_2O_7^{4-} + H_2O + PPase \rightarrow 2HPO_4^{2-}$). PPase requires divalent metal cation (Mg^{2+}) for the enzymatic activity.

Host Yeast**Form** Liquid**Activity** Standard reaction: 100 mM Tris-HCl (pH 7.2), 2 mM $MgCl_2$ and 2 mM inorganic pyrophosphate.**Storage Buffer** In 20 mM Tris-HCl, 100 mM KCl, pH 8.0 (0.1 mM EDTA, 1 mM DTT and 50% glycerol).**Storage Instruction** Store at $-20^{\circ}C$.
Avoid repeated freezing and thawing.

Applications

- Functional Study
- In vitro Transcription