PRODUCT INFORMATION Inorganic Pyrophosphatase (Yeast)

Catalog number	C15026-10U		
Package &	Cat.	Name	Amount
Component	C15026-10U	Inorganic Pyrophosphatase (Yeast) (0.1 U/µL)	10 U
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 2HPO ₄ ⁻²). PPase requires divalent metal cation (Mg ²⁺) for its enzymatic activity.		
Source	Escherichia coli		
Purity	>98% as determined by SDS-PAGE (purified by Ni-NTA chromatography).		
Unit Definition	One unit is defined as the amount of the enzyme hydrolysis 1 μ mol of inorganic pyrophosphate in 1 minutes at 25°C.		
Reaction Condition	Standard reaction: 100 mM Tris-HCl (pH 7.2), 2 mM MgCl ₂ and 2 mM inorganic pyrophosphate.		
Storage Buffer	This enzyme is supplied in 20 mM Tris-HCI (pH 8.0), 100 mM KCI, 0.1 mM EDTA, 1 mM DTT and 50% glycerol.		
Storage	Stored at -20°C. Avoid repeated freeze/thaw cycles.		
Application	 Higher RNA yields in transcription reaction 		
Notes	Inorganic Pyrophosphatase (Yeast) requires divalent metal cation (Mg ²⁺) for its enzymatic activity. This enzyme is widely used in RNA IVT reaction.		

For Research Use Only.