

HB220701

Pyrophosphatase, Inorganic GMP-grade (1 U/ μ L)

Product Information

Product Name	Catalog No.	Size
Pyrophosphatase, Inorganic GMP-grade (1 U/ μ L)	10620ES10	10 U
	10620ES60	100 U
	10620ES80	1,000 U
	10620ES99	40 KU

Product Description

This product is an inorganic pyrophosphatase derived from recombinant expression in *E. coli*. It is an enzyme that can catalyze the conversion of one molecule of pyrophosphate into two molecules of phosphate ions. This is a high-energy reaction, so this reaction can be coupled to some thermodynamically unfavorable transformations in order to drive these transformations to completion. Inorganic pyrophosphatase (PPase) catalyzes the hydrolysis of inorganic pyrophosphate to orthophosphate. In molecular biology, it can be used to increase RNA yield in reverse transcription reaction.

This product is produced in accordance with GMP process requirements, and the product is provided in liquid form

Product Properties

Source	Recombinant <i>E. coli</i> with Pyrophosphatase gene from yeast
Optimum Temperature	25°C
Storage Buffer	50 mM Tris-HCl pH 7.9, 100 mM NaCl, 10 mM DTT, 1 mM EDTA, 0.1% (v/v) TritonX-100, 50% (v/v) glycerin
Unit Definition	One unit (U) is the amount of enzyme needed to catalyze the hydrolysis of PPI per minute to produce 1 μ mol Pi. (The standard reaction is: 500 μ L system contains 100 mM Tris-HCl pH7.2, 2 mM MgCl ₂ , 2 mM Ppi; reaction at 25°C for 10 min)

Contents

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		10620ES10 (10 U)	10620ES60 (100 U)	10620ES80 (1,000 U)	10620ES99 (40 KU)
10620	Pyrophosphatase, Inorganic GMP-grade (1 U/ μ L)	10 μ L	100 μ L	1 mL	40 mL

Shipping and Storage

The Pyrophosphatase, Inorganic GMP-grade products shipped with dry ice and can be stored at -15°C ~ -25°C for one year.

Notes

1. This product is active in a variety of reaction buffers. Usually, this product can be directly connected in experiments such as IVT.
2. The optimal reaction temperature of this product is 25°C, it is active at 16-37°C, 65°C can inactivate the enzyme for 10 minutes.
3. For your safety and health, please wear personal protective equipment (PPE), such as laboratory coats and disposable gloves, when operating with this