

Inorganic Pyrophosphatase

Product Code: PY01

Pyrophosphatase catalyses the hydrolysis of inorganic pyrophosphate into two orthophosphate molecules. It is widely used in molecular biology and biotechnological applications to enhance reaction efficiency and ensure the completeness of nucleotide incorporation in various processes such as DNA synthesis and RNA transcription. Inorganic Pyrophosphatase from *E. coli* requires Mg^{2+} as a cofactor to achieve best activity.

Related products from Fluorobiottech

- ▶ T7 RNA Polymerase

PROPERTIES

Source	Recombinantly produced in <i>E. coli</i>
Amount (Units)	100 U/mL
Purity	>99%
Tag	His tag
Form	Clear liquid
Molecular weight	~21 kDa
Recommended Reaction Buffer	Works in most buffers containing Mg^{2+} (1-10 mM)
Applications	Enhancing IVT Efficiency, DNA & RNA Polymerisation, Nucleotide Incorporation and Bioprocessing
DNase Activity	Below quantification limit by fluorimetric assay (LOQ: 2.04 ng/mL)
RNase Activity	Below quantification limit by fluorimetric assay (LOQ: 0.06 ng/mL)
Endotoxins	<5 EU/mL, measured using a recombinant Factor C assay
Species	<i>E. coli</i> K12
Storage and stability	Stable for 12 months if stored at -20°C. Avoid freeze/thaw cycles.
Shipping	Frozen gel ice packs
Animal origin free	Yes

Precautions and Disclaimer

This product is for laboratory research use only. It is not suitable for human therapeutic or diagnostic use. Please consult the Material Safety Data Sheet for handling recommendations before working with this material.