

Recombinant E.coli ppa, His-tagged

Cat. No. ppa-3594E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli ppa protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-176aa).
Species	E.coli
Source	E.coli
Description	Inorganic pyrophosphatase (ppa) belongs to the Ppase family. This protein is an enzyme 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM NaCl
Molecular Weight	21.9kDa (196aa), confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	1mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSSLVPRGSH MSLLNVPAGK DLPEDIYVVI EIPANADPIK

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acids	YEIDKESGAL FVDRFMSTAM FYPCNYGYIN HTLSLDGDPV DVLVPTPYPL QPGSVIRCRP VGVLMKMTDEA GEDAKLVAVP HSKLSKEYDH IKDVNDLPEL LKAQIAHFFE HYKDLEKGGW VKVEGWENAE AAKAEIVASF ERAKNK
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Oxidative phosphorylation, organism-specific biosystem; Oxidative phosphorylation, conserved biosystem

GENE INFORMATION

Gene Name	ppa inorganic pyrophosphatase [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	ppa
Synonyms	ppa; inorganic pyrophosphatase; EC 3.6.1.1
Gene ID	948748
Protein Refseq	NP_418647

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