

Recombinant e.coli ppa protein

Catalog Number: ATGP1132

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-176aa

UniProt No.

P0A7A9

NCBI Accession No.

NP_418647

Alternative Names

inorganic pyrophosphatase, ECK4222, JW4185

PRODUCT SPECIFICATION

Molecular Weight

21.9 kDa (196aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM NaCl

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant E. coli ppa protein, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MSLLNVPAGK DLPEDIYVVI EIPANADPIK YEIDKESGAL FVDRFMSTAM FYPCNYGYIN
HTLSLDGDPV DVLVPTYPL QPGSVIRCRP VGVLKMTDEA GEDAKLVAVP HSKLSKEYDH IKDVNDLPEL LKAQIAHFFE
HYKDLEKGGW VKVEGWENAE AAKAEIVASF ERAKNK

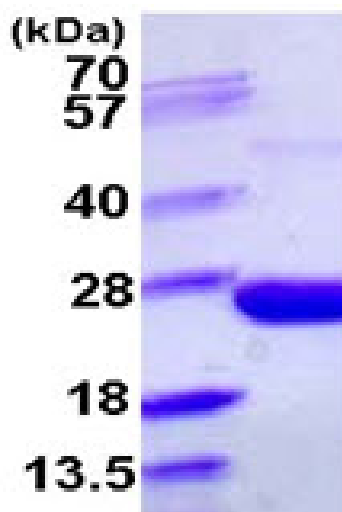
General References

Harold FM., et al (1966) Bacteriol Rev 30 (4): 772-94.

Carman GM., et al (2006) Trends Biochem. Sci. 31 (12): 694-9.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)