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AR39072PU-N E. coli Pyrophosphatase 1 / PPA1 (1-176, His-tag) - Purified

Alternate names: IOPPP, Inorganic pyrophosphatase, PP, PPase, Pyrophosphate phospho-hydrolase

Quantity: 0.1 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Background: Inorganic pyrophosphatase (PPA1, E.coli 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.

Uniprot ID: P0A7A9

NCBI: AP_004726

GeneID: 948748

Species: E. coli

Source: E. coli

Format:
State: Liquid purified protein
Purity: >95%
Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM NaCl

Description: Recombinant E.coli ppa protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MSLLNVPAGK DLPEDIYVVI EIPANADPIK YEIDKESGAL FVDRFMSTAM FYPCNYGYIN HTLSLDGDPV DVLVPTPYPL QPGSVIRCRP VGVLKMTDEA GEDAKLVAVP HSKLSKEYDH IKDVNDLPEL LKAQIAHFFE HYKDLEKGKW VKVEGWENAE AAKAEIVASF ERAKNK
Molecular weight: 21.9 kDa (196aa), confirmed by MALDI-TOF

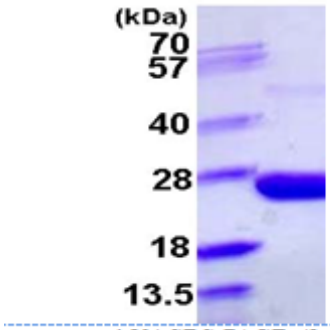
Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

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

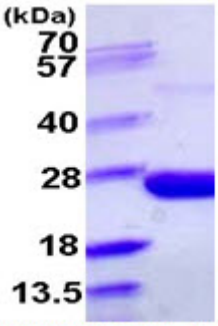
For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Pictures:

Recombinant E.coli ppa, 1-176aa, His-tagged



15% SDS-PAGE (3ug)



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