

ppa, 1-176aa, E.coli, His tag, E.coli

Cat.NO.: TP03478

3th Edition

Synonyms: inorganic pyrophosphatase

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.

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMSLLNVPAGKDLPEDIYVVEIPANADPIKYEIDKESGALFVDRFMSTAMFYPCNYG
YINHTLSLDGDPVDVLVPTPYPLQPGSVIRCRPVGVKMTDEAGEDAKLVAVPHSKLSKEYDHIKDVNDLPELLKAQI
AHFFEHYKDLEKKGWVKVEGWENAEAAKAEIVASFERAKNK

Purity: > 95% by HPLC

Concentration: 1mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.