www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

PPA E.Coli

Catalog #:ENPS-156

For research use only.

Description:PPA E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 196 amino acids (1-176 a.a.) and having a molecular mass of 21.9kDa.PPA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms: Inorganic pyrophosphatase, Pyrophosphate phospho-hydrolase, PPase, ppa, b4226, JW4185.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MSLLNVPAGK DLPEDIYVVI EIPANADPIK YEIDKESGAL FVDRFMSTAM FYPCNYGYIN HTLSLDGDPV DVLVPTPYPL QPGSVIRCRP VGVLKMTDEA GEDAKLVAVP HSKLSKEYDH IKDVNDLPEL LKAQIAHFFE HYKDLEKGKW VKVEGWENAE AAKAEIVASF ERAKNK.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
PPA protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 50mM NaCl.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Inorganic pyrophosphatase (ppa) is a member of the Ppase family. PPA is an enzyme which catalyzes the conversion of one molecule of pyrophosphate to two phosphate ions. Since this is a highly exergonic reaction, it can therefore be coupled to unfavorable biochemical transformations in order to drive these transformations to completion. The role of the PPA enzyme is a critical one in the lipid metabolism (including lipid synthesis and degradation), calcium absorption and bone formation, DNA synthesis, as well as other biochemical transformations.

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