
Product Data Sheet

Product Name: PPA E.Coli
 Cat. No.: GP22125
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Inorganic pyrophosphatase; Pyrophosphate phospho-hydrolase; PPase; ppa; b4226; JW4185.		
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MSLNVPAGK DLPEDIYVVI EIPANADPIK YEIDKESGAL FVDRFMSTAM FYPCNYGYIN HTLSLDGDPV DVLVPTYPL QPGSVIRCRP VGVLKMTDEA GEDAKLVAVP HSKLSKEYDH IKDVNDLPEL LKAQIAHFFE HYKDLEKGTKW VKVEGWENAE AAKAEIVASF ERAKNK.		
Formulation	PPA protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 50mM NaCl.		

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.

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.

Background

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

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21.9kDa.PPA is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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