

Exopolyphosphatase/PPX Protein, E.coli (His)

Cat. No.:	HY-P71502
Synonyms:	ppx; c3020; Exopolyphosphatase; ExopolyPase; EC 3.6.1.11
Species:	E.coli
Source:	E. coli
Accession:	P0AFL7 (P2-A513)
Gene ID:	57732396
Molecular Weight:	Approximately 62.0 kDa

PROPERTIES

AA Sequence

P I H D K S P R P Q	E F A A V D L G S N	S F H M V I A R V V	D G A M Q I I G R L
K Q R V H L A D G L	G P D N M L S E E A	M T R G L N C L S L	F A E R L Q G F S P
A S V C I V G T H T	L R Q A L N A T D F	L K R A E K V I P Y	P I E I I S G N E E
A R L I F M G V E H	T Q P E K G R K L V	I D I G G G S T E L	V I G E N F E P I L
V E S R R M G C V S	F A Q L Y F P G G V	I N K E N F Q R A R	M A A A Q K L E T L
T W Q F R I Q G W N	V A M G A S G T I K	A A H E V L M E M G	E K D G I I T P E R
L E K L V K E V L R	H R N F A S L S L P	G L S E E R K T V F	V P G L A I L C G V
F D A L A I R E L R	L S D G A L R E G V	L Y E M E G R F R H	Q D V R S R T A S S
L A N Q Y H I D S E	Q A R R V L D T T M	Q M Y E Q W R E Q Q	P K L A H P Q L E A
L L R W A A M L H E	V G L N I N H S G L	H R H S A Y I L Q N	S D L P G F N Q E Q
Q L M M A T L V R Y	H R K A I K L D D L	P R F T L F K K K Q	F L P L I Q L L R L
G V L L N N Q R Q A	T T T P P T L T L I	T D D S H W T L R F	P H D W F S Q N A L
V L L D L E K E Q E	Y W E G V A G W R L	K I E E E S T P E I	A A

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The Exopolyphosphatase/PPX protein serves as a key enzyme involved in the degradation of inorganic polyphosphates (polyP). Functioning as an exopolyphosphatase, it catalyzes the processive release of orthophosphate from the ends of the polyP chain. This enzymatic activity is essential in regulating cellular polyP levels and is implicated in various biological processes. The Exopolyphosphatase/PPX protein's role in polyP degradation contributes to maintaining phosphate homeostasis within the cell and is integral to the intricate network of cellular processes where polyP is involved.

Caution: Product has not been fully validated for medical applications. For research use only.

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