

Exopolyphosphatase/PPX Protein, E.coli (His-SUMO)

Cat. No.:	HY-P71516
Synonyms:	ppx; b2502; JW2487; Exopolyphosphatase; ExopolyPase; EC 3.6.1.11; Metaphosphatase
Species:	E.coli
Source:	E. coli
Accession:	P0AFL6 (2P-513A)
Gene ID:	946970
Molecular Weight:	Approximately 74.0 kDa

PROPERTIES

AA Sequence

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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

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

Appearance Lyophilized powder.

Formulation Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.

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

Exopolyphosphatase/PPX protein, specializing in the degradation of inorganic polyphosphates (polyP), proficiently releases orthophosphate in a processive manner from the termini of the polyP chain. Demonstrating a robust predilection for long-chain polyphosphates, this enzyme exhibits only modest affinity for smaller polyP sizes, typically around 15 residues. With its precision in catalyzing the breakdown of polyP, Exopolyphosphatase/PPX plays a crucial role in regulating phosphate metabolism and contributes to the dynamic balance of cellular phosphate pools.

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

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