

Thymopoietin Protein, Human (His)

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| Cat. No.: | HY-P71361 |
| Synonyms: | Lamina-Associated Polypeptide 2 Isoforms Beta/Gamma; Thymopoietin Isoforms Beta/Gamma; TP Beta/Gamma; Thymopoietin-Related Peptide Isoforms Beta/Gamma; TPRP Isoforms Beta/Gamma; Thymopoietin; TP; Splenin; Thymopentin; TP5; TMPO; LAP2 |
| Species: | Human |
| Source: | E. coli |
| Accession: | P42167 (M1-E187) |
| Gene ID: | 7112 |
| Molecular Weight: | Approximately 23.0 kDa |

PROPERTIES

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| AA Sequence | <p> P E F L E D P S V L T K D K L K S E L V A N N V T L P A G E Q R K D V Y V Q L Y L Q H L T A R N R P P L P A G T N S K G P P D F S S D E E R E P T P V L G S G A A A A G R S R A A V G R K A T K K T D K P R Q E D K D D L D V T E L T N E D L L D Q L V K Y G V N P G P I V G T T R K L Y E K K L L K L R E Q G T E S R S S T P L P T I S S S A E N T R Q N G S N D S D R Y S D N E </p> |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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 ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| 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

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| Background | <p>Thymopoietin (TP) emerges as a protein that may play a pivotal role in directing the assembly of the nuclear lamina, contributing to the maintenance of structural organization within the nuclear envelope. It is postulated to be a potential receptor for attaching lamin filaments to the inner nuclear membrane, suggesting its involvement in anchoring crucial structural components. Furthermore, TP may participate in the control of DNA replication initiation through interaction with NAKAP95, implicating its regulatory function in cellular processes. Beyond its structural and regulatory roles, both Thymopoietin (TP) and its derivative Thymopentin (TP5) are associated with potential functions in T-cell development and function, with TP5 specifically noted as an immunomodulating pentapeptide, highlighting the multifaceted contributions of</p> |
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Thymopoietin to cellular and immune processes.

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

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