

## TMPO Protein, Human, Recombinant (His)

## General Information

Synonyms:	Thymopoietin-Related Peptide Isoforms $\beta/\gamma$ ; Splenin; TMPO; TP; TP5; LAP2; Lamina-Associated Polypeptide 2 Isoforms Beta/Gamma; TPRP Isoforms $\beta/\gamma$ ; Thymopentin; Thymopoietin-Related Peptide Isoforms Beta/Gamma; Thymopoietin Isoforms Beta/Gamma; TP $\beta/\gamma$ ; TP Beta/ $\gamma$ ; Lamina-Associated Polypeptide 2 Isoforms $\beta/\gamma$ ; Thymopoietin; TPRP Isoforms Beta/Gamma; Thymopoietin Isoforms $\beta/\gamma$ ; TP Beta/Gamma
Protein Construction:	Met1-Glu187
Species:	Human
Expression Host:	E. coli
Accession:	P42167
Molecular Weight:	27 KDa (reducing condition)
AA Sequence:	Met1-Glu187

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

Thymopentin is a member of the LEM family. Thymopentin is expressed in many tissues, highly in the adult thymus and fetal liver. The N-terminal contains two structurally independent domains, LEM domain and LEM-like domain.

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The C-terminal domain forms a four-stranded coiled coil. Thymopentin may be involved in the structural organization of the nucleus and in the post-mitotic nuclear assembly. It is associated with T-cell development and function. Meantime, Thymopentin plays an important role, together with LMNA, in the nuclear anchorage of RB1. Thymopietin is participated in the induction of CD90 in the thymus.

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