

# Recombinant Human TMPO

**Cat. No.** TMPO-7815H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Thymopoietin is produced by our E. coli expression system. The target protein is expressed with sequence (Pro2Glu187) of Human Thymopoietin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | 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 LEMlike domain. The Cterminal domain forms a fourstranded coiled coil. Thymopentin may be involved in the structural organization of the nucleus and in the postmitotic nuclear assembly. It is associated with Tcell development and function. Meantime, Thymopentin plays an important role, together with LMNA, in the nuclear anchorage of RB1. Thymopoietin is participated in the induction of CD90 in the thymus. |
| <b>Form</b>             | Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Notes</b>            | For research use only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>          | Lyophilized protein should be stored at less than 20°C. though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C. for 2-7 days.Aliquots of reconstituted samples are stable at less than 20°C. for 3 months.                                                                                                                                                                                                                                                                                                                                                                                |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | TMPO thymopoietin [ Homo sapiens ]                                                                                                                                                                                                              |
| <b>Official Symbol</b>     | TMPO                                                                                                                                                                                                                                            |
| <b>Synonyms</b>            | TMPO; thymopoietin; LAP2; LEM domain containing 4; LEMD4; TP; TP alpha; TP beta/gamma; lamina-associated polypeptide 2; thymopoietin-related peptide isoform alpha; thymopoietin-related peptide isoforms beta/gamma; CMD1T; PRO0868; MGC61508; |
| <b>Gene ID</b>             | 7112                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_001032283                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_001027454                                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 188380                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>          | P42166                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 12q22                                                                                                                                                                                                                                           |
| <b>Function</b>            | DNA binding; lamin binding; protein binding;                                                                                                                                                                                                    |

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