

# Recombinant Human THPO

**Cat. No.** THPO-29520TH    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant full length protein (Human)                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>            | 174 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>              | Megakaryocytopoiesis is the cellular development process that leads to platelet production. The protein encoded by this gene is a humoral growth factor that is necessary for megakaryocyte proliferation and maturation, as well as for thrombopoiesis. This protein is the ligand for MLP/C_MPL, the product of myeloproliferative leukemia virus oncogene. Alternate splicing results in multiple transcript variants of this gene. |
| <b>Form</b>                     | Lyophilised                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>                  | Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                        |
| <b>Sequences of amino acids</b> | Recombinant human TPO is a fully biologically active 174 amino acid polypeptide (18.6 kDa), which contains the erythropoietin-like domain of the full length TPO protein.SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVL LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLL LGALQSLLGT QLPPQGRTTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL                                                                                          |

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CVRRAPPTTA VPSRTSLVLT LNEL

**Sequence Similarities** Belongs to the EPO/TPO family.

## GENE INFORMATION

**Gene Name** THPO thrombopoietin [ Homo sapiens ]

**Official Symbol** THPO

**Synonyms** THPO; thrombopoietin; MGDF; c mpl ligand; megakaryocyte colony stimulating factor; megakaryocyte growth and development factor; megakaryocyte stimulating factor; MPL ligand; MPLLG; myeloproliferative leukemia virus oncogene ligand; thrombopoietin nirs var

**Gene ID** 7066

**mRNA Refseq** NM\_000460

**Protein Refseq** NP\_000451

**MIM** 600044

**Uniprot ID** P40225

**Chromosome Location** 3q27

**Pathway** Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Hemostasis, organism-specific biosystem; Platelet Aggregation (Plug Formation), organism-specific biosystem; Platelet activation, signaling and

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aggregation, organism-specific biosystem;

**Function**

cytokine activity; growth factor activity; hormone activity;

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