

## Recombinant Human THPO, Fc-tagged

Cat. No. THPO-81H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	A DNA sequence encoding the human THPO (Met1-Leu192) was expressed with the Fc region of human IgG1 at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	1-192 a.a.
<b>Description</b>	Megakaryocytopoiesis is the cellular development process that leads to platelet production. The main functional 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. Mutations in this gene are the cause of thrombocythemia 1. Alternative promoter usage and differential splicing result in multiple transcript variants differing in the 5' UTR and/or coding region. Multiple AUG codons upstream of the main open reading frame (ORF) have been identified, and these upstream AUGs inhibit translation of the main ORF at different extent.
<b>Predicted N Terminal</b>	Ser 22
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4.
<b>Molecular Mass</b>	The recombinant human THPO consists 409 amino acids and predicts a molecular mass of 45 kDa.

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<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 70 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -383°C
<b>Storage</b>	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	THPO thrombopoietin [ Homo sapiens ]
<b>Official Symbol</b>	THPO
<b>Synonyms</b>	THPO; thrombopoietin; thrombopoietin nirs variant 1; megakaryocyte stimulating factor; MKCSF; c-mpl ligand; megakaryocyte colony-stimulating factor; MGDF; megakaryocyte growth and development factor; MPL ligand; myeloproliferative leukemia virus oncogene ligand; C-mpl ligand; Megakaryocyte colony-stimulating factor; Megakaryocyte growth and development factor; MGC163194; Myeloproliferative leukemia virus oncogene ligand; ML; TPO; MPLLG; OTTHUMP00000210502; OTTHUMP00000210503; OTTHUMP00000210504
<b>Gene ID</b>	7066
<b>mRNA Refseq</b>	NM_000460
<b>Protein Refseq</b>	NP_000451
<b>MIM</b>	600044

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<b>UniProt ID</b>	P40225
<b>Chromosome Location</b>	3q27
<b>Pathway</b>	Hematopoietic cell lineage; Hemostasis; Platelet Activation; Platelet Aggregation (Plug Formation)
<b>Function</b>	cytokine activity; growth factor activity; hormone activity

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