

Recombinant Human THPO, His-tagged

Cat. No. THPO-80H Lot. No. (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human THPO (Met1-Leu192) was expressed with a polyhistidine tag at the C-terminus.
Species	Human
Source	Human Cells
ProteinLength	1-192 a.a.
Description	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.
Predicted N Terminal	Ser 22
Form	Lyophilized from sterile PBS, pH 7.4.
Molecular Mass	The recombinant human THPO consists 182 amino acids and predicts a molecular mass of 19.8 kDa.

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Endotoxin	<1.0 EU per µg protein as determined by the LAL method.
Purity	> 85 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	THPO thrombopoietin [Homo sapiens]
Official Symbol	THPO
Synonyms	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
Gene ID	7066

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mRNA Refseq	NM_000460
Protein Refseq	NP_000451
MIM	600044
UniProt ID	P40225
Chromosome Location	3q27
Pathway	Hematopoietic cell lineage; Hemostasis; Platelet Activation; Platelet Aggregation (Plug Formation)
Function	cytokine activity; growth factor activity; hormone activity

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