

Active Recombinant Human Thrombopoietin

Cat. No. THPO-27H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human THPO (Ser22-Gly349) was produced in HEK293 Cells.
Species	Human
Source	HEK293
ProteinLength	22-349 a.a.
Description	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. Mutations in this gene are the cause of thrombocythemia 1. Alternate splicing results in multiple transcript variants of this gene.
Molecular Mass	37.4 kDa
Formulation	Lyophilized from 0.22 µm filtered solution in 50mM Tris 150mM NaCl pH 7.0. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Purity	>95% as determined by SDS-PAGE.
Endotoxin	Less than 1.0 EU per µg of the rhTPO by the LAL method.

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Bioactivity	The bio-activity was determined by dose-dependent stimulation of the proliferation of MO7e cells. The ED50<1ng/ml, corresponding to a specific activity of >1X106 Unit/mg.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).
OfficialSymbol	THPO
GENE INFORMATION	
Gene Name	THPO thrombopoietin [Homo sapiens]
Synonyms	THPO; thrombopoietin; ML; TPO; MGDF; MKCSF; MPLLG; MGC163194; MPL ligand; c-mpl ligand; thrombopoietin nirs variant 1; megakaryocyte stimulating factor; megakaryocyte colony-stimulating factor; megakaryocyte growth and development factor; myeloproliferative leukemia virus oncogene ligand
Gene ID	7066
mRNA Refseq	NM_000460
Protein Refseq	NP_000451
MIM	600044
UniProt ID	P40225
Chromosome Location	3q27

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Pathway	Hematopoietic cell lineage; Platelet Aggregation (Plug Formation); Platelet activation, signaling and aggregation
Function	cytokine activity; growth factor activity; hormone activity
PDB rendering based on 1v7m.	