

Recombinant Human Thrombopoietin

Cat. No. THPO-1533H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human rhTPO contains no µTagsµ and has a calculated MW of 37.4kDa. As a result of glycosylation, DTT-reduced protein migrates as a 60-80 kDa polypeptide in SDS-PAGE.
Species	Human
Source	HEK293
Description	Thrombopoietin (THPO) is a relatively lineage-specific cytokine that stimulates megakaryocyte growth and maturation in Thrombopoietin is a relatively lineage specific cytokine that stimulates megakaryocyte growth and maturation in vitro and is a potent in vivo thrombopoietic growth factor. On removal of the 21-amino acid signal peptide, the mature molecule consists of 2 domains: a receptor-binding domain that shows considerable homology to erythropoietin and a carbohydrate-rich carboxy-terminus of the protein that is highly glycosylated and important in maintaining protein stability.
Form	Bulk protein in a 0.22 µm filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder Normally 5-8% trehalose and lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.
Purity	>95% as determined by SDS-PAGE. All lots are greater than 95% pure.
Endotoxin	Less than 1.0 EU per 1 µg of the rhTPO by the LAL method.

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Storage

Stable in lyophilized state at 4°C for 1 year after receipt. Sterile stock solutions reconstituted are stable at 4°C for 2 months and at -20°C for 6 months. Avoid repeated freeze-thaw cycles.

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

mRNA Refseq

NM_000460

Protein Refseq

NP_000451

MIM

600044

UniProt ID

P40225

**Chromosome
Location**

3q27

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Pathway

Hematopoietic cell lineage; Formation of Platelet plug; Hemostasis; Platelet Activation; Platelet activation triggers

Function

cytokine activity; growth factor activity; hormone activity

PDBrendering based
on 1v7m.

