

Recombinant Human Thrombopoietin

Cat. No. THPO-175H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	Sf21 Cells
Description	Thrombopoietin (leukemia virus oncogene ligand, megakaryocyte growth and development factor), also known as THPO is a lineage-dominant hematopoietic cytokine. TPO is a glycoprotein hormone constitutively produced mainly by the liver and kidney and is the primary physiological regulator megakaryopoiesis and platelet production.
Molecular Weight	The predicted molecular weight of Recombinant Human TPO is Mr 35 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 47 kDa.
State Of Matter	Lyophilized.
Biological Activity	The biological activity of Human Thrombopoietin is determined by the dose-dependent stimulation of the proliferation of human MO7e cells. The expected ED50 for this effect is 1.0-3.0 ng/ml.
Purity	>97% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C

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for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name THPO thrombopoietin [Homo sapiens]

Synonyms 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; Thrombopoietin; ML; TPO; MPLLG; THPO

Gene ID 7066

mRNA Refseq NM_000460

Protein Refseq NP_000451

MIM 600044

UniProt ID P40225

Chromosome Location 3q27

Pathway Hematopoietic cell lineage

Function cytokine activity; growth factor activity; hormone activity

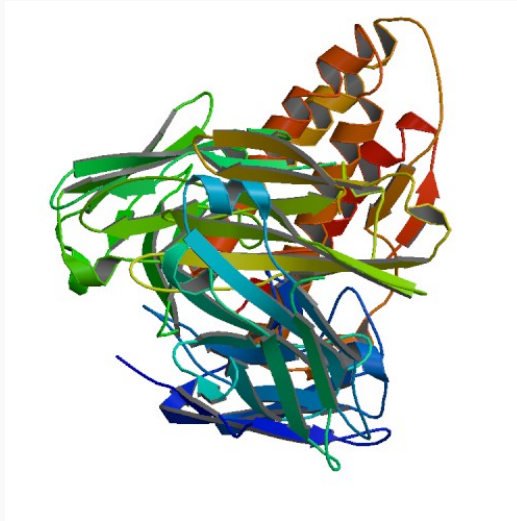
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PDB rendering based
on 1v7m.



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