Recombinant Human Thrombopoietin

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

SPECIFICATION

Product Overview	
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/μg as determined by the LAL method.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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 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

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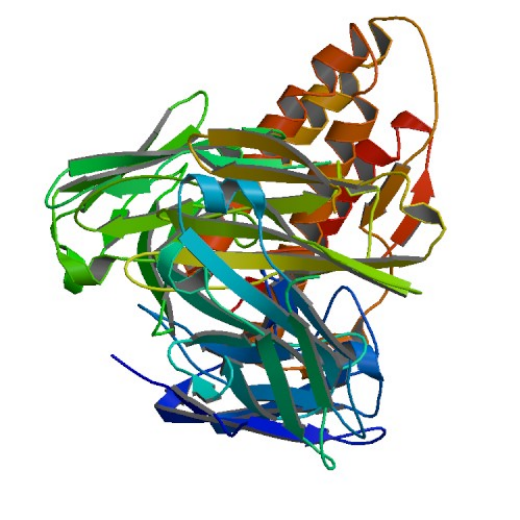
Function	cytokine activity; growth factor activity; hormone activity
PDB rendering based on 1v7m.	

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