

Active Recombinant Human THPO Protein, His-tagged

Cat. No. THPO-216H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mature form of human THPO (NP_000451.1) (Ser 22-Gly 353) was fused with a polyhistidine tag at the N-terminus.
Species	Human
Source	HEK293
ProteinLength	22-353 a.a.
Predicted N Terminal	Ser 22
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-activity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 for this effect is typically 3-15 ng/ml.
Molecular Mass	The recombinant human THPO consists of 348 amino acids with the predicted molecular mass of 37.6 kDa. As a result of glycosylation, rhTHPO migrates as an approximately 80 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.

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Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	THPO thrombopoietin [Homo sapiens]
Official Symbol	THPO
Synonyms	ML; TPO; MGDF; MKCSF; MPLLG; THCYT1; MPL ligand; c-mpl ligand; megakaryocyte colony-stimulating factor; megakaryocyte growth and development factor; megakaryocyte stimulating factor; myeloproliferative leukemia virus oncogene ligand; prepro-thrombopoietin
Gene ID	7066
mRNA Refseq	NM_000460
Protein Refseq	NP_000451
MIM	600044
UniProt ID	P40225
Chromosome Location	3q27
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Hematopoietic

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cell lineage, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem

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