

Recombinant Active Human THPO Protein, His-tagged(N-ter)

Cat. No. THPO-305H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Active Human THPO Protein with His tag (N-ter) was expressed in E. coli.
Species	Human
Source	E.coli
Description	Megakaryocytopoiesis is the cellular development process that leads to platelet production. The main functional 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. Alternative promoter usage and differential splicing result in multiple transcript variants differing in the 5' UTR and/or coding region. Multiple AUG codons upstream of the main open reading frame (ORF) have been identified, and these upstream AUGs inhibit translation of the main ORF at different extent. [provided by RefSeq, Feb 2014]
Form	Powder
Bio-activity	Determined by its ability to induce proliferation in MO7e cells. The ED50 for this effect is < 2 ng/mL. The specific activity of recombinant human TPO is > 5 x 10 ⁵ IU/mg.
AA Sequence	SPAPPACDLRVLSKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSLGEWKTQME ETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLLGALQSLLGTQLP

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	PQGRRTTAHKDPNAIFLSFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRTSLVLT LNEL
Endotoxin	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.
Purity	> 95% (by SDS-PAGE)
Applications	SDS-PAGE
Notes	For laboratory research only, not for drug, diagnostic or other use.
Storage	Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Storage Buffer	PBS (pH 7.4)
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

GENE INFORMATION

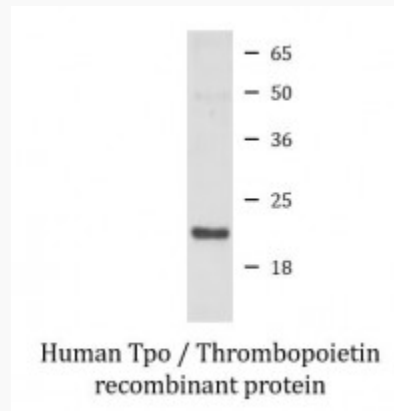
Gene Name	THPO thrombopoietin [Homo sapiens (human)]
Official Symbol	THPO
Synonyms	THPO; thrombopoietin; ML; TPO; MGDF; MKCSF; MPLLG; THCYT1; thrombopoietin; MPL ligand; c-mpl ligand; megakaryocyte colony-stimulating factor; megakaryocyte growth and development factor; megakaryocyte stimulating factor; myeloproliferative

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leukemia virus oncogene ligand; prepro-thrombopoietin; thrombopoietin nirs

Gene ID 7066**mRNA Refseq** NM_000460**Protein Refseq** NP_000451**MIM** 600044**UniProt ID** P40225**SDS-PAGE** 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