

Recombinant Mouse Thpo protein

Cat. No. Thpo-1531M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Thpo protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	174
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.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4, with 5% Trehalose.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human MO7e cells is less than 1.0 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^6$ IU/mg.

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Molecular Mass	Approximately 18.7 kDa, a single non-glycosylated polypeptide chain containing 174 amino acids.
AA Sequence	SPVAPACDPRLNKLRLDSHLLHSRLSQCPDVDPLSIPVLLPAVDVDFSLGEWKTQTEQ SKAQDILGAVSLLLEGVMAARGQLEPSCLSSLLGQLSGQVRLLLGALQGLLGTQLPL QGRRTAHKDPNALFLSLQQLLRGKVRFLLLVEGPTLCVRRRTLPTTAVPSSTSQLLTLN KF
Endotoxin	Less than 0.1 EU/g of rMuTPO as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Thpo
Official Symbol	Thpo
Synonyms	THPO; thrombopoietin; C-mpl ligand; megakaryocyte colony-stimulating factor; megakaryocyte growth and development factor; myeloproliferative leukemia virus

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oncogene ligand; Ml; Tpo; Mgdf; Tpo1; Tpo2; Tpo3; Tpo4; Mpllg;

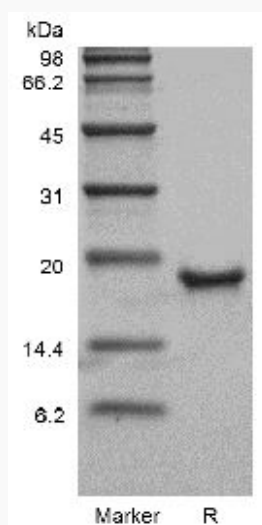
Gene ID 21832

mRNA Refseq NM_001173505

Protein Refseq NP_001166976

UniProt ID P40226

SDS-PAGE of Thpo-1531M



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