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Thpo
Recombinant Mouse Thrombopoietin / THPO (His Tag)

Catalog No.	CRM547A-His	**Quantity:**	20 µg
	CRM547B-His		100 µg
	CRM547C-His		1.0 mg

Alternate Names: Thrombopoietin, C-mpl ligand, ML, Megakaryocyte colony-stimulating factor, Megakaryocyte growth and development factor, MGDF, Myeloproliferative leukemia virus oncogene ligand

Description: Thrombopoietin (THPO), also known as myeloproliferative leukemia virus ligand (c-Mpl), is a hematopoietic growth factor belonging to the EPO/THPO family. THPO is produced mainly by the liver and the kidney that regulates the production of platelets by the bone marrow. THPO stimulates both proliferation of progenitor megakaryocytes and their maturation to platelet-producing megakaryocytes, and also accelerates the recovery of platelets. THPO is involved in cardiovascular disease as it regulates megakaryocyte development and enhances platelet adhesion/aggregation. It has been identified that surface c-MPL, the receptor for thrombopoietin, binds to the ligand and mediates the action.

UniProt ID: P40226

Accession Number: NP_033405.1

Protein Construction: A DNA sequence encoding the mouse THPO precursor (Met 1-Thr 356) with a N-terminal polyhistidine tag was expressed.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The rmTHPO consists of 346 aa with the predicted MW of 37 kDa and migrates at ~80 -90 kDa in SDS-PAGE under reducing conditions, due to glycosylation.

Purity: > 90 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method

Biological Activity: Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 for this effect is typically 1.6-6.4 ng/mL.

Predicted N-terminal: Ser 22

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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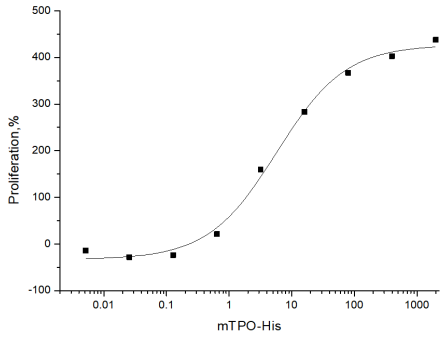

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