

Active Recombinant Mouse TPO protein, His&hFc-tagged

Cat. No. TPO-17261M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse TPO protein(P40226)(22~356 aa), fused with N-terminal His tag and C-terminal hFc tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	22-356 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Thrombopoietin (TPO), is a key regulator of megakaryocytopoiesis and thrombopoiesis. It is principally produced in the liver and is bound and internalized by the receptor Tpo R/c-mpl. Defects in the Tpo-Tpo R signaling pathway are associated with a variety of platelet disorders. The activity of recombinant mouse TPO was measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. MO7e cells were seeded into triplicate wells of 96-well plates at a density of 30,000 cells/well in RPMI-1640 with the addition of various concentrations of rmTPO. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μof CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Cell proliferation of MO7e cells after incubation with rmTPO for 72h observed by

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inverted microscope was shown. It was obvious that rmTPO significantly promoted cell proliferation of MO7e cells .The EC50 for this effect is typically 0.26 ug/ml.

Molecular Mass	66.6kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Tpo thyroid peroxidase [Mus musculus]
Official Symbol	TPO
Synonyms	TPO; thyroid peroxidase;
Gene ID	22018
mRNA Refseq	NM_009417
Protein Refseq	NP_033443

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