

## HumanKine<sup>®</sup> recombinant human TPO (Thrombopoietin) protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

### Product Description

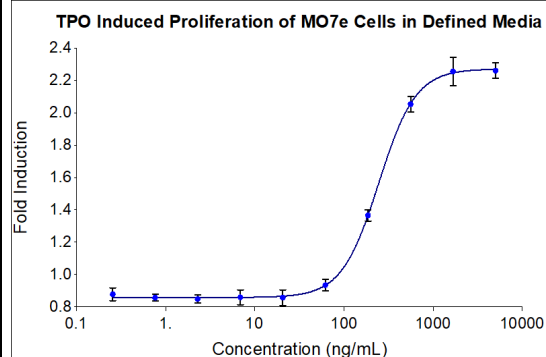
Animal-free Recombinant Human TPO (Thrombopoietin) is expressed from human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 70 to 93 kDa. This cytokine is produced in a serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation, contributing to stability in cell growth media and other applications. C- terminal domain glycosylation is thought to be important for the secretion of Thrombopoietin from cells and for survival of Thrombopoietin in the circulation.

Alternative Names	MGDF, MKCSF, ML, MPLLG, THPO, Thrombopoietin
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived TPO (Thrombopoietin) protein
Species Reactivity	human

### Specifications

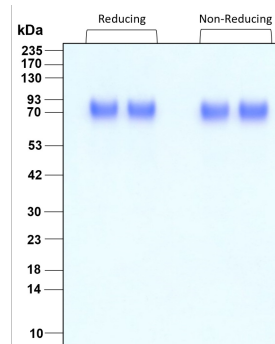
Test	Method	Specification
Activity (EC50)	Dose-dependent stimulation of the proliferation of MO7e cells in Defined media	100-500 ng/mL EC50 in MO7e cells in defined media
Molecular Mass	SDS-PAGE	70 to 93 kDa reduced and non-reduced, monomer, glycosylated.
Purity	SDS-PAGE	>95%
Endotoxin	LAL	< 1 EU/μg

### Activity Data



Recombinant human TPO (HZ-1248) stimulates dose-dependent proliferation of the MO7e (human megakaryoblastic leukemia) cell line. Cell number was quantitatively assessed by PrestoBlue<sup>®</sup> Cell Viability Reagent. MO7e cells under defined media conditions were treated with increasing concentrations of GMP recombinant TPO for 72 hours. The EC50 was determined using a 4-

### SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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