

HumanKine[®] TPO (Thrombopoietin) (Recombinant Human)



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

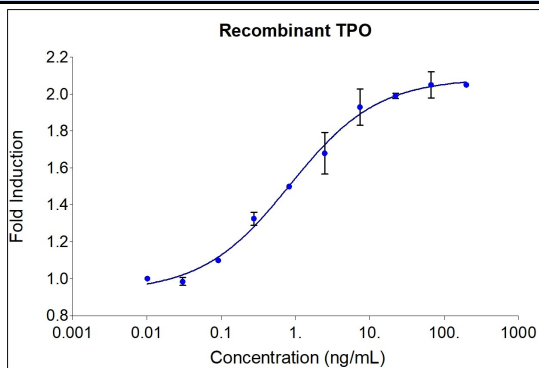
Species Reactivity

human

Specifications

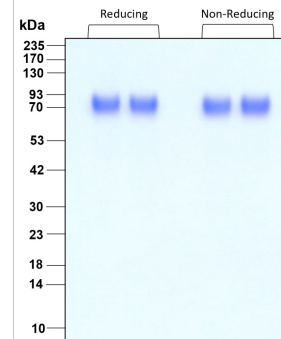
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of MO7e cells in Defined media	100-500 ng/mL EC50 in MO7e cells in defined media
Molecular Mass	SDS-PAGE	70 to 93 kDa reduced and non-reduced, monomer, glycosylated.
Purity	SDS-PAGE	>95%
Endotoxin	LAL	< 1 EU/μg

Activity Data



The activity was determined by the dose- dependent stimulation of the proliferation of MO7e cells using Promega CellTiter96[®] Aqueous Non-Radioactive Cell Proliferation Assay.

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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