


CA1085	HumanKine™ TPO			
	Prod. No. S2343-10UG	lot #: PRXXXXXX XXXX	Orders & Support	866 372-7442 support@primorigen.com
	<i>For Research Use Only Not intended for use in humans or animals</i>		Web	www.primorigen.com

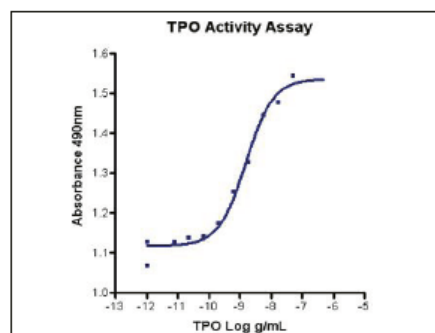
Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	80 to 85 kDa, monomer, glycosylated
Activity	Typically 0.5 to 5 ng/mL ED50
Purity	≥ 90%
Endotoxin	≤ 1 EU/µg

Background:

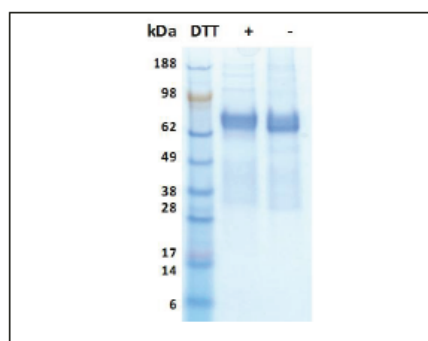
Recombinant human thrombopoietin expressed in engineered human cells. TPO is an 80 to 85 kDa monomeric glycoprotein and belongs to the EPO/TPO protein family. TPO is primarily produced in the liver and regulates the formation of megakaryocytes and platelets. C-terminal domain glycosylation is thought to be important for the secretion of TPO from cells and for survival of TPO in the circulation.

Note: Representative data are shown below (not Lot-specific).

A. Activity Assay



B. SDS-PAGE



Formulation:

Lyophilized in PBS.

Reconstitution:

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

The specific activity was determined by the dose-dependent inhibition of proliferation of the human TF-1 cells (human erythroleukemic indicator cell line).

Purity Confirmation:

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

References:

Rubin, J. S., et al (1991) PNAS 88, 415-419
 Jiang, W. G., et al (2005) Crit Rev Onc/Hemat 53, 35-69

**All HumanKine™ cytokines are expressed in HEK 293 cells.
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