



## RECOMBINANT HUMAN THROMBOPOIETIN

<b>CATALOG NUMBER:</b>	GF037
<b>LOT NUMBER:</b>	NMM1582564
<b>QUANTITY:</b>	10 µg
<b>DESCRIPTION:</b>	TPO (Thrombopoietin, Mpl-ligand, and MGDF) stimulates the proliferation and maturation of megakaryocytes and promotes increased circulating levels of platelets <i>in vivo</i> . TPO signals through the c-mpl receptor and acts as an important regulator of circulating platelets. Chemicon's Human TPO is a biologically active 18.6 kDa protein containing 174 amino acid residues, which contains the erythropoietin-like domain of the full length TPO.
<b>SOURCE:</b>	<i>E. coli</i>
<b>PURITY:</b>	Greater than 98% by SDS-PAGE and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1 EU/µg) of human TPO.
<b>ACTIVITY:</b>	The ED <sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of MO7e cells is ≤1.0 ng/mL, corresponding to a specific activity of ≥1x10 <sup>6</sup> units/mg.
<b>PRESENTATION:</b>	Lyophilized protein from 0.1% TFA.
<b>STORAGE/HANDLING:</b>	The lyophilized powder, though stable at room temperature, is best stored at -20°C for up to twelve months after date of receipt. Reconstitute with sterile water to a concentration of <0.5 mg/mL. This solution can be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use. Reconstituted TPO should be stored in undiluted aliquots at -20°C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>REFERENCE:</b>	Yoo, ES, et al., Myeloid differentiation of human cord blood CD34+ cells during ex vivo expansion using thrombopoietin, flt-3 ligand and/or granulocyte-colony stimulating factor. <i>British Journal of Hematology</i> (1999) <b>105</b> :1034-1040.

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