

**Human CellExp™, TPO, Human Recombinant**

<b>CATALOG NO:</b>	6483-10	10 µg
	6483-50	50 µg
<b>ALTERNATE NAMES:</b>	Thrombopoietin, C-mpl ligand, Megakaryocyte colony-stimulating factor, Megakaryocyte growth and development factor, Myeloproliferative leukemia virus oncogene ligand, THPO	
<b>SOURCE:</b>	Human 293 Cell Expressed	
<b>PURITY:</b>	> 95% by SDS - PAGE	
<b>MOL. WEIGHT:</b>	75 to 90 kDa, observed by reducing SDS-PAGE	
<b>ENDOTOXIN LEVEL:</b>	< 1 EU/µg; determined by LAL method.	
<b>FORMULATION:</b>	Lyophilized from 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.	
<b>RECONSTITUTION:</b>	Reconstitute in ddH <sub>2</sub> O at 100 µg/ml.	
<b>STORAGE CONDITIONS:</b>	Lyophilized recombinant TPO, Human remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution; Human TPO should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.	

**DESCRIPTION:**

TPO (Thrombopoietin, also known as Mpl-ligand, MGDF), a glycoprotein hormone produced mainly by the liver and the kidney, stimulates the proliferation and maturation of megakaryocytes and promotes increased circulating levels of platelets in vivo. TPO signals through the c-mpl receptor and acts as an important regulator of circulating platelets. Recombinant Human TPO produced by a mammalian expression system is a polypeptide chain containing 346 amino acids. A fully biologically active molecule; rhTPO a molecular mass of 75-90 kDa analyzed by reducing SDS-PAGE.

**BIOLOGICAL ACTIVITY:**

Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells .The ED50 for this effect is typically 0.5-5 ng/ml.

**AMINO ACID SEQUENCE:**

HHHHHHSPAPPACDLRVLSKLLRDSHVLHSRLSQCPVHPLPTPVLLPAVDFSLGEWKTQMEE  
TKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLGTLPPQGRRTAH  
KDPNAIFLSFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRSTSLVLTNLNLPNRTSGLLETNF  
TASARTTGSGLLKWQQGFRAKIPGLLNQTSRSLDQIPGYLNRIHELLNGTRGLFPGPSRRTLGA  
PDISSGSDTGSLPPNLQPGYSPSPHPPTGQYTLFPLPPTLPTPVVQLHPLLPDPSAPTPTPT  
SPLLNTSYTHSQNLSQEGVDHHHHHH

**RELATED PRODUCTS:**

- TPO, human recombinant (**Cat. No. 4351-10, -50, -1000**)
- TPO, murine recombinant (**Cat. No. 4352-10, -50, -1000**)
- TPO Antibody (**Cat. No. 5352-100**)
- TPO Antibody (**Cat. No. 3051R-100**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**