

## TPO Human, CHO

**Description:**Thrombopoietin Human Recombinant is approximately 80 kDa, consisting of a 332 amino acid residue with a predicted molecular mass of approximately 35 kDa. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 80

**Synonyms:**Megakaryocyte colony-stimulating factor, Myeloproliferative leukemia virus oncogene ligand, C-mpl ligand, ML, Megakaryocyte growth and development factor, MGDF, TPO, MKCSF, MPLLG, MGC163194, THPO.

**Source:**Chinese Hamster Ovarian Cells (CHO).

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:**SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVL  
LPVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL QQLSGQVRLL  
LGALQSLLGT QLPPQGRRTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA  
VPSRTSLVLT LNELPNRTSG LLETNFTASA RTTGSGLLKW QQGFRAKIPG LLNQTSRSLD  
QIPGYLNRIH EL

**Purity:**Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**

Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM sodium citrate buffer, pH 6.9.

**Stability:**

Lyophilized Thrombopoietin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TPO Human should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

**Usage:**

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**Solubility:**

It is recommended to reconstitute the lyophilized Thrombopoietin in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**

Thrombopoietin is a glycoprotein hormone produced mainly by the liver and the kidney that regulates the production of platelets by the bone marrow. It stimulates the production and differentiation of megakaryocytes, the bone marrow cells that fragment into large numbers of platelets.

**Biological Activity:**

The ED<sub>50</sub> as determined by the dose-dependant stimulation of MO7e cells is 1-3 ng/ml, corresponding to a Specific Activity of 1 x 10<sup>6</sup> IU/mg.

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**References:**

Title:Contribution of an Aged Microenvironment to Aging-Associated Myeloproliferative  
Disease.Publication:Vas V, Wandhoff C, D



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