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## Product Data Sheet

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Product Name: TPO Protein  
 Cat. No.: GP21022  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	MSPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVL LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLI LGALQSLLGT QLPPQGRTTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNEL.		
Solubility	It is recommended to reconstitute the lyophilized Thrombopoietin in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a sterile filtered solution containing 10mM sodium phosphate, pH 7.5.		

### 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-dependent proliferation of MO7e cells (with SCF), is 1.95 ng/ml, corresponding to a specific activity of 5x10<sup>5</sup> units/mg.

### Stability

Lyophilized Thrombopoietin although stable at room temperature for 3 weeks, should be

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stored desiccated below  $-18^{\circ}\text{C}$  . Upon reconstitution TPO Human should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$  .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

### Background

Thrombopoietin Human Recombinant produced in E.Coli is a single, non-glycosylated soluble polypeptide chain containing 175 amino acids and having a molecular mass of 18.8kDa which comprises the receptor binding domain of the Mpl-ligand protein.The TPO is purified by proprietary chromatographic techniques.

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