

## Product Data Sheet

Product Name: TPO Human, HEK  
 Cat. No.: GP21023  
 Batch No.: 1

### Product Data

Purity	>98%	Source	HEK.
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; M PLLG; MGC163194; THPO.		
Amino Acid Sequence	SPAPPACDLRVLSKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSLG EWKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQV RLLLGALQSLLGTQLPPQGRRTAHKDPNAIFLSFQHLLRGKVRFLMLVGG STLCVRRAPPTTAVPSRTSLVLTNLNPNRTSGLLETNFTASARTTGSGLLK WQQGFRAKIPGLLNQTSRSLDQIPGYLNRIHELLNGTRGLFPGPSRRTLGA P DISSGTSDTGSLPNNLQPGYSPSPHPPTGQYTLFPLPPTLPTPVVQLHPLLDPSPAPTPTPTSPLLNTSYTHSQNLSQEG		
Solubility	It is recommended to reconstitute the lyophilized Thrombopoietin in sterile PBS containing 0.1% endotoxin-free recombinant HSA.		

Formulation The TPO protein was filtered (0.2µm) and lyophilized from 0.74mg/ml in 1xPBS.

### 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 activity was determined by the dose-dependent stimulation of the proliferation of MO7e cells, the ED50 is 1.15ng/ml.

### Stability

Lyophilized Thrombopoietin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TPO 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.

### Background

Thrombopoietin Human Recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight range of 80-85kDa due to glycosylation. The TPO is purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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