
Product Data Sheet

Product Name: TPO Mouse
 Cat. No.: GP21026
 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	SPVAPACDPR LLNKLLRDSH LLHSRLSQCP DVDPLSIPVL LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL GQLSGQVRLLLGALQGLLGT QLPLQGRTTA HKDPNALFLS LQQLLRGKVR FLLLVEGPTL CVRRTLPTTA VPSSTSQLLT LNKF.		
Solubility	It is recommended to reconstitute the lyophilized Thrombopoietin in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.		

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

ED₅₀ range is less than 0.8ng/ml as determined by the dose dependent stimulation of Mo7e cells.

Stability

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

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stored desiccated below -18°C . Upon reconstitution TPO Mouse 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 Mouse Recombinant produced in E.Coli is a single, non-glycosylated soluble polypeptide chain containing 174 amino acids and having a molecular mass of 18704 Dalton. The TPO is purified by proprietary chromatographic techniques.

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