
Product Data Sheet

Product Name: TPO Mouse, HEK
 Cat. No.: GP26086
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Thpo, C-mpl ligand, ML, Megakaryocyte colony-stimulating factor, Megakaryocyte growth and development factor, MGDF, Myeloproliferative leukemia virus oncogene ligand, Mgdg, MI, Mpllg, Tpo, thrombopoietin isoform 1.		
Amino Acid Sequence	SPVAPACDPR LLNKLLRDSH LLHSRLSQCP DVDPLSIPVL LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL GQLSGQVRLG LGALQGLLGT QLPLQGRTTA HKDPNALFLS LQQLLRGKVR FLLLVEGPTL CVRRTLPTTA VPSSTSQLLT LNKFPNRTSG LLETNFSVTA RTAGPGLLSR LQGFRVKITP GQLNQTSRSP VQISGYLNRT HGPVNGTHGL FAGTSLQTL ASDISPGAFN KGSLAFNLQG GLPPSPSLAP DGHTPFPPSP ALPTTHGSPP QLHPLFPDPS TTMPNSTAPH PVTMYPHPRN LSQETHHHHH H.		
Formulation	TPO protein (0.5mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Thrombopoietin or TPO or MGDF, is a protein (glycoprotein hormone) that can be found in the liver and kidney tissues. TPO regulates the creation of platelets. The protein enhances the production & differentiation of cells such as megakaryocytes that are part of the bone marrow cells that secretes a wide number of platelets. The cellular development process that ends up in the production of platelet calls (Megakaryocytopoiesis). Humoral growth factor is needed for the megakaryocyte proliferation & maturation of megakaryocyte, not apart from thrombopoiesis.

Biological Activity

Measured by its ability to agglutinate human red blood cells. The ED50 for this effect is

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

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≥ 25ug/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TPO Mouse Recombinant produced in HEK293 cells is a single, non-glycosylated polypeptide chain containing 341 amino acids (22-356 a.a) and having a molecular mass of 36.4kDa. TPO is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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