

rm TPO

recombinant murine Thrombopoietin

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Product	Cat#	Package size
rm Thrombopoietin	C6383.0002	2µg
rm Thrombopoietin	C6383.0010	10µg
rm Thrombopoietin	C6383.1000	1mg

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.

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.

Rec. murine Thrombopoietin is produced in *E.Coli* as a single, non-glycosylated polypeptide chain of 174 amino acids and a molecular mass of 18704 Da.

Purity: Greater than 95.0%, determined by:
SDS-PAGE (silver stained)

Source: *E. Coli*

Amino acid sequence

SPVAPACDPR LLNKLRLDSH LLHSRLSQCP DVDPLSIPVL LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ
LEPSCLSLL GQLSGQVRL LGALQGLLGT QLPLQGRTTA HKDPNALFLS LQQLLRGKVR FLLLVEGPTL CVRRTLPTTA
VPSSTSQLLT LNKF.

Biological Activity:

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

Solubility: It is recommended to reconstitute the lyophilized Thrombopoietin in sterile 18MΩ-cm H₂O not less than 100µg/mL, which can then be further diluted to other aqueous solutions.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder. The protein was lyophilized from a concentrated (1mg/mL) solution containing no additives.

Stability

Lyophilized rm TPO although stable at room temperature for 3 weeks, should be stored below -18°C. Upon reconstitution rm 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 from repeated freeze-thaw cycles.

Usage

The Genaxxon bioscience rm TPO is offered for research, laboratory or further manufacturing purposes only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.