

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Mouse Thrombopoietin

Catalog No.
228-11544

Source:
E. Coli

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.

Description:

Recombinant Thrombopoietin Mouse 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.

Physical Appearance:

Sterile Filtered White Lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

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.

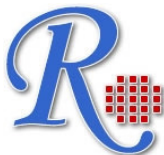
Stability:

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

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

SPVAPACDPR LLNKLLRDSH LLHSRLSQCP DVDPLSIPVL LPAVDFSLGE
WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL GQLSGQVRL
LGALQGLLGT QLPLQGRITA HKDPNALFLS LQQLLRGKVR FLLLVEGPTL
CVRRTLPTTA VPSSTSQLLT LNKF .

Biological Activity

ED₅₀ range = 0.05-0.015 ng/mL, determined by the dose dependent proliferation of Mo7e cells. The optimal concentration for each specific application should be determined by an initial dose-response assay.

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