

32-1815: TPO Recombinant Protein(Discontinued)

Alternative Name : Megakaryocyte colony-stimulating factor, Myeloproliferative leukemia virus oncogene ligand, C-mpl ligand, ML, Megakaryocyte growth and development factor, MGDF, TPO, MKCSF, MPLLG, MGC163194, THPO.

Description

Source : Escherichia Coli. Thrombopoietin Human Recombinant produced in E.Coli is a single, non-glycosylated soluble polypeptide chain containing 175 amino acids and having a molecular mass of 18.8kDa which comprises the receptor binding domain of the Mpl-ligand protein. The TPO is purified by proprietary chromatographic techniques. 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.

Product Info

Amount : 10 µg
Purification : Greater than 90.0% as determined by SDS-PAGE.
Content : Lyophilized from a sterile filtered solution containing 10mM sodium phosphate, pH 7.5.
Storage condition : Lyophilized Thrombopoietin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TPO Human 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.
Amino Acid : MSPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVL LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLL LGALQSLGTT QLPPQGRRTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNEL.

Application Note

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. The ED₅₀, as determined by the dose-dependent proliferation of MO7e cells (with SCF), is 1.95 ng/ml, corresponding to a specific activity of 5x10⁵ units/mg.

