

Recombinant murine Thrombopoietin (rm TPO)

Thrombopoietin (TPO) 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, that bone marrow cells that fragment into large numbers of platelets.

Recombinant murine TPO produced in *E. Coli* is a single, non-glycosylated soluble polypeptide chain containing 174 amino acids and having a molecular mass of 18.7 kDa. The rm TPO is purified by proprietary chromatographic techniques.

Synonyms : Megakaryocyte colony- stimulating factor, MKCSF, Myeloproliferative leukemia virus oncogene ligand, MPLLG, C- mpl ligand, ML, Megakaryocyte growth and development factor, MGDF

Source: *Escherichia coli*

AA Sequence: SPVAPACDPR LLNKLLRDSH LLHSRLSQCP DVDPLSIPVL LPAVDFSLGE
WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL GQLSGQVRL
LGALQGLLGT QLPLQGRTTA HKDPNALFLS LQQLLRGKVR FLLLVEGPTL
CVRRTLPTTA VPSSTSQLLT LNKF

Formulation: Lyophilized from a 0.22 µm filtered solution in PBS pH 7.5,

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 µg/ml

Stability: Although stable at room temperature for 3 weeks, should be stored desiccated 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).

Biological Activity: Determined by the dose-dependent stimulation of Balb/c 3T3 cells proliferation. The expected ED₅₀ for this effect is 8-10 ng/ml.

Purity: > 95.0% (verified by SDS-PAGE / silver stain)

Endotoxicity: The endotoxin level is less than 1 EU / µg determined by LAL method.

Order N°: rmTPO+Size
available sizes: 2 µg, 10 µg, 50 µg

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