

## 32-6588: TPO Mouse, HEK

**Application :** Functional Assay

**Alternative Name :** 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.

### Description

Source: HEK293.

Sterile Filtered colorless solution.

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 secrete 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.

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.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 range <=4ng/ml.

**Content :** TPO protein (0.5mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% glycerol.

**Storage condition :** 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.

**Amino Acid :** SPVAPACDPR LLNKLRLDSH LLHSRLSQCP DVDPLSIPVL LPAVDLFLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL QLSGQVRL LGALQGLLGT QLPLQGRRTA HKDPNALFLS LQQLRGKVR FLLLVEGPTL CVRRTLPTTA VPSSTSQLLT LNKFPNRTSG LLETNFSVTA RTAGPGLLSR LQGFRVKITP GQLNQTSRSP VQISGYLNRT HGPVNGTHGL FAGTSLQTL ASDISPGAFN KGSLAFNLQG GLPPSPSLAP DGHTPFPPSP ALPTTHGSPP QLHPLFPDPS TTMPNSTAPH PVTMYPHPRN LSQETHHHHH H.

### Application Note

Measured by its ability to agglutinate human red blood cells. The ED50 for this effect is >= 25ug/ml.