

TPO, Mouse

Cat. No.: Z03175-1

Size: 1.0 mg

Synonyms: Thrombopoietin, Megakaryocyte colony-stimulating factor, c-MPL Ligand, MGDF

Description:

Thrombopoietin (TPO), also known as C-mpl ligand, MGDF and Thpo, is a glycoprotein hormone belonging to the EPO/TPO family. It is expressed mainly in the liver, kidney and skeletal muscle. TPO binds and signals through MLP/C_MPL receptor. It stimulates the proliferation and maturation of megakaryocytes from their committed progenitor cells, and it regulates the production and circulation of platelets. TPO has also been reported to promote the apoptosis of hypoxia-sensitized neurons and to inhibit neuronal differentiation.

Amino Acid Sequence:

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00001 SPVAPACDPR LLNKLLRDSH LLHSRLSQCP DVDPLSIPVL
00041 LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ
00081 LEPSCLSSLL GQLSGQVRLR LGALQGLLGT QLPLQGRITTA
00121 HKDPNALFLS LQQLLRGKVR FLLLVEGPTL CVRRTLPTTA
00161 VPSSTSQLLT LNKFPNRTSG LLETNFSVTA RTAGPGLLSR
00201 LQGFRVKITP GQLNQTSRSP VQISGYLNRT HGPVNGTHGL
00241 FACTSLQTLT ASDISPGAFN KGSLAFNLQG GLPPSPSLAP
00281 DGHTPFPPSP ALPTTHGSPP QLHPLFPDPS TTMPNSTAPH
00321 PVTMYPHPRN LSQET
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Source: CHO

Species: Mouse

Biological Activity: ED₅₀ < 2 ng/ml, measured in a proliferation assay using MO7e cells.

Molecular Weight: 30-80 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant murine Thrombopoietin (TPO) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, murine Thrombopoietin (TPO) should be stable up to 1 week at 4°C or up to 2 months at -20°C.