

Overview

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| Synonyms | C-mpl ligand, MGDF, Thpo; 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. Recombinant mouse TPO produced in <i>HEK293</i> cells with C-terminal Histidine tag, is a polypeptide chain containing 341 amino acids. rmTPO has a molecular mass of 62~70 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques. |
| Species | Mouse |
| Source | <i>HEK 293</i> |
| Biological Activity | ED ₅₀ < 2ng/ml, measured in a proliferation assay using MO7e cells. |
| Sequence | <pre> SPVAPACDPR LLNKLLRDSH LLHSRLSQCP DVDPLSIPVL LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSLL GQLSGQVRL LGALQGLLGT QLPLQGRRTA HKDPNALFLS LQQLLRGKVR FLLLVEGPTL CVRRTLPTTA VPSSTSQLLT LNKFPNRTSG LLETNFSVTA RTAGPGLLSR LQGFVRKITP GQLNQTSRSP VQISGYLNRT HGPVNGTHGL FAGTSLQTL ASDISPGAFN KGSLAFNLQG GLPPSPSLAP DGHTPFPPSP ALPTTHGSP QLHPLFPDPS TTMPNSTAPH PVTMYPHPRN LSQETHHHHH H </pre> |

Properties

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| Measured Molecular Weight | 62-70kDa, observed by reducing SDS-PAGE. |
| Purity | > 97% as analyzed by reducing SDS-PAGE. |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS. |
| Reconstitution | Reconstituted in sterile ddH ₂ O or PBS at 100 µg/ml. |
| Endotoxin Level | <0.2 EU/µg, determined by LAL method. |
| Storage | Lyophilized recombinant Mouse TPO remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse TPO should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles. |
| Note | For research use only |

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