

TPO
Catalog # PVGS1414**Specification**

TPO - Product Information

Primary Accession [P49745](#)
Species
Rat

Sequence

SPVPPACDPR LLNKLLRDSY LLHSRLSQCP DVNPLSIPVL LPAVD FSLGE WKTQTEQSKA QDILGAVSLL
LEGVMAARGQ LEPSCLSSLL QQLSGQVRL LGALQGLLGT QLPPQGRTTA HKDPSALFLS LQQLLRGKVR
FLLLVEGPAL CVRRTLPTTA VPSRTSQLLT LNKFH HHHHHH

Purity

> 98% as analyzed by SDS-PAGE.

Endotoxin Level

< 0.2 EU/ µg, determined by LAL method.

Formulation

Lyophilized after extensive dialysis against PBS.

Reconstitution

Reconstituted in ddH₂O or PBS at 100 µg/ml.

TPO - Additional Information

Gene ID 81811

Other Names

Thrombopoietin, Thpo

Target Background

Thrombopoietin (TPO), also known as c-Mpl ligand, MGDF and THOP, 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 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 apoptosis of hypoxia-sensitized neurons and to inhibit neuronal differentiation. Recombinant Rat Thrombopoietin(TPO), His, produced in CHO cells is a polypeptide chain containing 174 amino acids. A fully biologically active molecule, rrTPO has a molecular mass of 22 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at .

TPO - Protein Information

Name Thpo

Function

Lineage-specific cytokine affecting the proliferation and maturation of megakaryocytes from their committed progenitor cells. It acts at a late stage of megakaryocyte development. It may be the major physiological regulator of circulating platelets.

Cellular Location

Secreted {ECO:0000250|UniProtKB:P40225}.

TPO - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TPO - Images