

Active Recombinant Mouse Tpo Protein

Cat. No. Tpo-201T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tpo Protein without tag was expressed in CHO.
Species	Mouse
Source	CHO
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2 ng/mL, measured in a proliferation assay using MO7e cells.
Molecular Mass	30-80 kDa, observed by reducing SDS-PAGE.
AA Sequence	SPVAPACDPRLNKLRLDSHLLHSRLSQCPDVPDPLSIPVLLPAVDVDFSLGEWKTQTEQ SKAQDILGAVSLLLEGVMAARGQLEPSCSSLLGQLSGQVRLLLGALQGLLGTQLPL QGRRTAHKDPNALFLSLQQLLRGKVRFLLLVEGPTLCVRRTLPTTAVPSSTSQLLTLN KFPNRTSGLLETNFSVTARTAGPGLLSRLQGFRVKITPGQLNQTSRSPVQISGYLNR THGPVNGTHGLFAGTSLQTLEASDISPGAFNKGSLAFNLQGGLPPSPSLAPDGHPTF

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PPSPALPTTHGSPQLHPLFPDPSTTMPNSTAPHPVTMYPHPRNLSQET

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

Purity > 95% as analyzed by SDS-PAGE.

Storage Lyophilized recombinant murine Thrombopoietin (TPO) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, murine Thrombopoietin (TPO) should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

Storage Buffer Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH₂O or PBS at 100 μg/mL..

GENE INFORMATION

Gene Name [Tpo thyroid peroxidase \[Mus musculus \]](#)

Official Symbol [Tpo](#)

Synonyms TPO; thyroid peroxidase;

Gene ID [22018](#)

mRNA Refseq [NM_009417](#)

Protein Refseq [NP_033443](#)

UniProt ID [P35419](#)

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