

## Active Recombinant Mouse Tpo Protein

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

### SPECIFICATION

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

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 ddH<sub>2</sub>O 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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