

# Recombinant Mouse Thrombopoietin

**Cat. No.** Thpo-177M    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                              |                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>               | Mouse                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>                | Mammalian Cells                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>           | Thrombopoietin (leukemia virus oncogene ligand, megakaryocyte growth and development factor), also known as THPO is a lineage-dominant hematopoietic cytokine. TPO is a glycoprotein hormone constitutively produced mainly by the liver and kidney and is the primary physiological regulator megakaryopoiesis and platelet production. |
| <b>Molecular Weight</b>      | The predicted molecular weight of Recombinant Mouse TPO is Mr 35 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 75 kDa. The actual molecular weight of 75 KDa is a result of glycosylation.                                                                                                        |
| <b>State Of Matter</b>       | Lyophilized.                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>                | >97% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                           |
| <b>Endotoxin</b>             | <0.1 ng per 1 g as determined by the LAL method.                                                                                                                                                                                                                                                                                         |
| <b>Storage And Stability</b> | This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated                                                                              |

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Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

## GENE INFORMATION

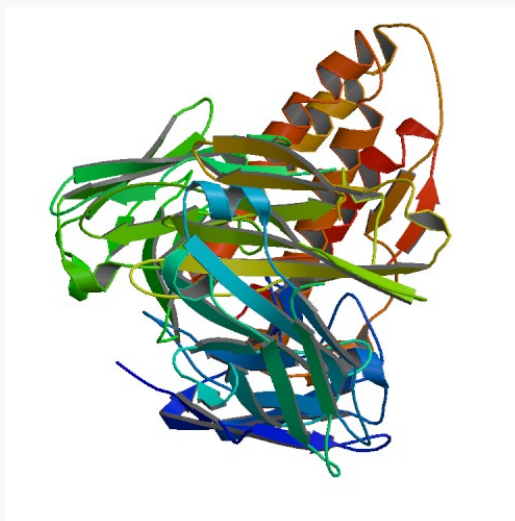
|                            |                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | Thpo thrombopoietin [ <i>Mus musculus</i> ]                                                                                                                   |
| <b>Synonyms</b>            | Thpo; thrombopoietin; TPO; Mpllg; TPO-1; TPO-2; TPO-3; TPO-4; Thpo; OTTMUSP00000023070; OTTMUSP00000023071; myeloproliferative leukemia virus oncogene ligand |
| <b>Gene ID</b>             | 21832                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_009379                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_033405                                                                                                                                                     |
| <b>UniProt ID</b>          | P40226                                                                                                                                                        |
| <b>Chromosome Location</b> | 16 B1; 16 13.8 cM                                                                                                                                             |
| <b>Pathway</b>             | Hematopoietic cell lineage                                                                                                                                    |
| <b>Function</b>            | cytokine activity; hormone activity                                                                                                                           |

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