

# Mouse Thrombopoietin/THPO (His Tag) recombinant protein



Catalog Number: 502393

## General Information

### Gene Name Synonym

C-mpl ligand; Megakaryocyte colony-stimulating factor; Megakaryocyte growth and development factor; Myeloproliferative leukemia virus oncogene ligand

### Protein Construction

A DNA sequence encoding the mouse THPO (NP\_033405.1) precursor (Met 1-Thr 356) with a N-terminal polyhistidine tag was expressed.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED<sub>50</sub> for this effect is typically 0.5-2.5 ng/mL.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Ser 22

### Molecular Mass

The recombinant mouse THPO consists of 346 amino acids with the predicted molecular mass of 37 kDa. As a result of glycosylation, rmTHPO migrates as an approximately 80-90 kDa band in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile PBS, pH 7.4  
1. 5 % trehalose and mannitol are added as protectants before lyophilization.  
2. Please contact us for any concerns or special requirements.

## Usage Guide

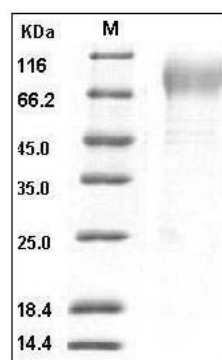
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Mouse Thrombopoietin / THPO / TPO Protein (His Tag) SDS-PAGE