

For Research Use Only

# Recombinant Mouse Thrombopoietin protein (His Tag)



Catalog Number: Eg0678

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Mouse Thrombopoietin protein Ser22-Thr356 (Accession# P40226-1) with a His tag at the C-terminus.

**GeneID:**

21832

**Accession:**

P40226-1

**Predicted Molecular Mass:**

36.7 kDa

**SDS-PAGE:**

60-85 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Thrombopoietin (TPO) is produced in the liver by both parenchymal cells and sinusoidal endothelial cells, as well as in the kidney by proximal convoluted tubule cells. It is a primary regulator of megakaryocyte development and platelet production in mammals. TPO binds the TPO receptor, activates JAK and STAT pathways, thus stimulating megakaryocyte growth and platelet production. Additionally, as TPO is vital for the maintenance of haematopoietic stem cells, it can truly be described as a pan- haematopoietic cytokine.

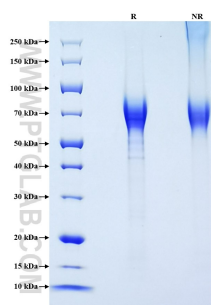
## References

1. David J Kuter. et al. (2013). Int J Hematol. 98(1):10-23.
2. Matthew Decker. et al. (2018) Science. 360(6384):106-110.
3. Kenneth Kaushansky. et al. (2006) N Engl J Med. 354(19):2034-45.
4. D Prow. et al. (1998) Oncology (Williston Park). 12(11):1597-604, 1607-8.

## Synonyms

Thpo, Mpllg, TPO

## Selected Validation Data



Purity of Recombinant Mouse Thrombopoietin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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