

## TPO/Thrombopoietin Protein, Mouse (HEK293)

Cat. No.:	HY-P7088A
Synonyms:	rMuTPO; TPO
Species:	Mouse
Source:	HEK293
Accession:	P40226 (S22-T356)
Gene ID:	21832
Molecular Weight:	Approximately 28-40 kDa due to glycosylation.

### PROPERTIES

AA Sequence	<p>           S P V A P A C D P R    L L N K L L R D S H    L L H S R L S Q C P    D V D P L S I P V L            L P A V D F S L G E    W K T Q T E Q S K A    Q D I L G A V S L L    L E G V M A A R G Q            L E P S C L S S L L    G Q L S G Q V R L L    L G A L Q G L L G T    Q L P L Q G R T T A            H K D P N A L F L S    L Q Q L L R G K V R    F L L L V E G P T L    C V R R T L P T T A            V P S S T S Q L L T    L N K F P N R T S G    L L E T N F S V T A    R T A G P G L L S R            L Q G F R V K I T P    G Q L N Q T S R S P    V Q I S G Y L N R T    H G P V N G T H G L            F A G T S L Q T L E    A S D I S P G A F N    K G S L A F N L Q G    G L P P S P S L A P            D G H T P F P P S P    A L P T T H G S P P    Q L H P L F P D P S    T T M P N S T A P H            P V T M Y P H P R N    L S Q E T         </p>
Biological Activity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED <sub>50</sub> for this effect is ≤1.641 ng/mL, corresponding to a specific activity is ≥6.094×10 <sup>5</sup> units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

Thrombopoietin (TPO), a lineage-specific cytokine, plays a crucial role in regulating the proliferation and maturation of megakaryocytes, acting at a late stage of their development from committed progenitor cells. Functioning as a key factor in megakaryopoiesis, TPO is recognized as a major physiological regulator of circulating platelets. Its influence on the later stages of megakaryocyte development underscores its significance in the intricate process of platelet formation.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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