

TPO/Thrombopoietin Protein, Mouse (335a.a, HEK293, His)

Cat. No.:	HY-P70686
Synonyms:	Thrombopoietin; C-mpl ligand; Megakaryocyte colony-stimulating factor; Megakaryocyte growth and development factor; Myeloproliferative leukemia virus oncogene ligand; THPO
Species:	Mouse
Source:	HEK293
Accession:	P40226-1 (S22-T356)
Gene ID:	21832
Molecular Weight:	80-110 kDa

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 ₅₀ for this effect is 0.9757 ng/mL, corresponding to a specific activity is 1.25×10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 2 mM EDTA, 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 ₂ 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 from date of receipt. 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

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.

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

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