

TPO/Thrombopoietin Protein, Human (HEK293, C-His)

Cat. No.:	HY-P70637A
Synonyms:	Thrombopoietin; C-mpl ligand; Megakaryocyte colony-stimulating factor; Megakaryocyte growth and development factor; Myeloproliferative leukemia virus oncogene ligand; THPO
Species:	Human
Source:	HEK293
Accession:	P40225 (S22-G353)
Gene ID:	7066
Molecular Weight:	approximately 73 kDa

PROPERTIES

AA Sequence	<p> S P A P P A C D L R V L S K L L R D S H V L H S R L S Q C P E V H P L P T P V L L P A V D F S L G E W K T Q M E E T K A Q D I L G A V T L L L E G V M A A R G Q L G P T C L S S L L G Q L S G Q V R L L L G A L Q S L L G T Q L P P Q G R T T A H K D P N A I F L S F Q H L L R G K V R F L M L V G G S T L C V R R A P P T T A V P S R T S L V L T L N E L P N R T S G L L E T N F T A S A R T T G S G L L K W Q Q G F R A K I P G L L N Q T S R S L D Q I P G Y L N R I H E L L N G T R G L F P G P S R R T L G A P D I S S G T S D T G S L P P N L Q P G Y S P S P T H P P T G Q Y T L F P L P P T L P T P V V Q L H P L L P D P S A P T P T P T S P L L N T S Y T H S Q N L S Q E G </p>
Biological Activity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED ₅₀ for this effect is 3.063 ng/mL, corresponding to a specific activity is 3.265×10 ⁵ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
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. 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) is a growth factor for the megakaryocytic/platelet lineage. TPO is expressed in the neurons of the human central nervous system and is neuroprotective. TPO is the key enzyme in the biosynthesis of thyroid hormones T3 and T4^{[1][2]}.

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

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