

Thrombopoietin Protein, Human, Recombinant (His)

General Information

Synonyms:	Megakaryocyte growth and development factor;C-mpl ligand;Thrombopoietin; Myeloproliferative leukemia virus oncogene ligand;THPO;Megakaryocyte colony-stimulating factor
Protein Construction:	Ser22-Gly353
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P40225
Molecular Weight:	70-90 KDa (reducing condition)
AA Sequence:	Ser22-Gly353

QC Testing

Biological Activity:	Measured in a cell proliferation assay using MO7E human megakaryocytic leukemic cells. The ED50 for this effect is 0.55 ng/mL.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.001 ng/μg (0.01 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 150 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

Protein Background

Thrombopoietin (TPO) is a glycoprotein hormone which belongs to the EPO/TPO family. It produced by the liver and kidney which regulates the production of platelets. TPO stimulates the production and differentiation of megakaryocytes, the bone marrow cells that bud off large numbers of platelets. Lineage-specific cytokine affects the proliferation and maturation of megakaryocytes from their committed progenitor cells. It acts at a late stage of

megakaryocyte development. It may be the major physiological regulator of circulating platelets.

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