



Recombinant Protein Technical Manual
Recombinant Human Thrombopoietin/TPO Protein
(His Tag)(Active)
RPES0736

Product Data:

Product SKU: RPES0736

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P40225

Protein Information:

Molecular Mass: 37.3 kDa

AP Molecular Mass: 70-90 kDa

Tag: N,C-6His

Bio-activity: Measured in a cell proliferation assay using MO7E human megakaryocytic leukemic cells. The ED50 for this effect is 0.55 ng/ml.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Cell Culture

Synonyms: Thrombopoietin;C-mpl ligand;Megakaryocyte colony-stimulating factor;Megakaryocyte growth and development factor;Myeloproliferative leukemia virus oncogene ligand;THPO

Immunogen Information:

Sequence: Ser22-Gly353

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.