

Recombinant Human Thrombopoietin/THPO Protein

RPCB0396

Description

This high-purity recombinant protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU: RPCB0396

Calculated MW: 36.31 kDa

Contents: 10 µg, 50 µg, 100 µg
Bradford Reagent (1 vial, 2ml)

Observed MW: 70-90 kDa

Reactivity: Human

Protein Description: High quality, high purity and low endotoxin recombinant Recombinant Human Thrombopoietin/THPO Protein (RPCB0396), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

Gene ID: 7066

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

Expression Host: HEK293 cells

Storage: Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Tags: C-His

Background: Thrombopoietin (TPO or THPO), also known as myeloproliferative leukemia virus ligand (c-Mpl), is a hematopoietic growth factor belonging to the EPO/TPO family. Megakaryocytopoiesis is the cellular development process that leads to platelet production. TPO is necessary for megakaryocyte proliferation and maturation, as well as for thrombopoiesis. TPO is the ligand for MLP/C_MPL, the product of myeloproliferative leukemia virus oncogene. Mutations in TPO gene are the cause of thrombocythemia.

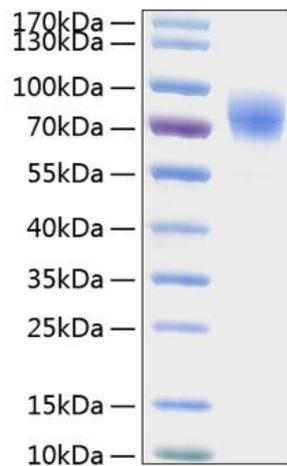
Synonyms: THPO, MGDF, MKCSF, ML, MPLLG, THCYT1, TPO

Purification: $\geq 95\%$ as determined by SDS-PAGE.

Endotoxin: < 0.1 EU/ μ g of the protein by LAL method.

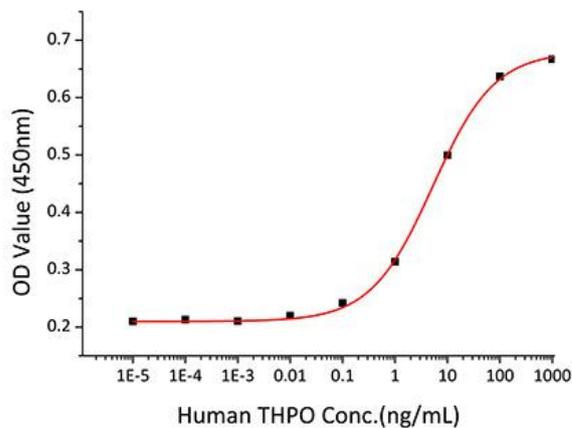
Validation Data

Image



Description

Recombinant Human Thrombopoietin/THPO Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human THPO stimulates cell proliferation of the MO7e human megakaryocytic leukemic cells. The ED50 for this effect is 2.61-10.44 ng/mL.