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Recombinant Mouse Thrombopoietin/THPO Protein

Catalog No.: RP01665S Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21832	P40226

Tags
NO-tag

Synonyms
Thpo;Thrombopoietin; MGDF; THPO;TPO

Product Information

Source	Purification
HEK293 cells	> 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
20.08 kDa	15-25 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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. The thrombopoietin protein is produced mainly by the liver and the kidney that regulates the production of platelets by the bone marrow. Thrombopoietin protein stimulates both proliferation of progenitor megakaryocytes and their maturation to platelet-producing megakaryocytes, and also accelerates the recovery of platelets. Thrombopoietin protein is involved in cardiovascular disease as it regulates megakaryocyte development and enhances platelet adhesion/aggregation. It has been identified that surface c-MPL, the receptor for thrombopoietin protein, binds to the ligand and mediates the action.

Basic Information

Description
Recombinant Mouse Thrombopoietin/THPO Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser22-Ser184) of Mouse Thrombopoietin/THPO (Accession # NP_033405.1) fused with no tag.

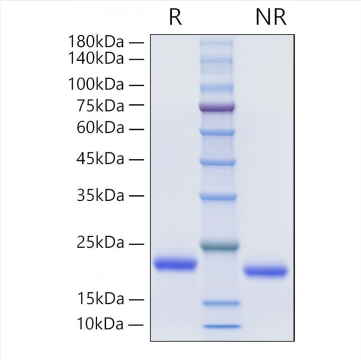
Bio-Activity
Measured in a cell proliferation assay using M07e human megakaryocytic leukemic cells. The ED50 for this effect is 0.028-0.110 ng/mL, corresponding to a specific activity of 9.07×106~3.62×107units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

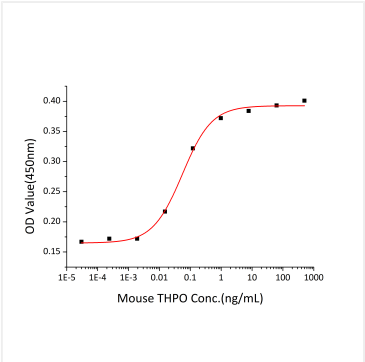
Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Mouse Thrombopoietin/THPO Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



Measured in a cell proliferation assay using M07e human megakaryocytic leukemic cells. The ED_{50} for this effect is 0.028-0.110 ng/mL, corresponding to a specific activity of 9.07×10^{6}~3.62×10^{7}units/mg.

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