

RP00454

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Recombinant Human TPO/Thrombopoietin/THPO Protein

Catalog No.: RP00454

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	7066	P40225

Tags

N-6×His & C-6×His

Synonyms

THPO;MGDF;MKCSF;ML;MPLLG;THCYT1;TPO

Product Information

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

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 150 mM NaCl, pH8.0. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

Megakaryocytopoiesis is the cellular development process that leads to platelet production. The main functional protein encoded by this gene is a humoral growth factor that is necessary for megakaryocyte proliferation and maturation, as well as for thrombopoiesis. This protein is the ligand for MLP/C_MPL, the product of myeloproliferative leukemia virus oncogene. Mutations in this gene are the cause of thrombocythemia 1. Alternative promoter usage and differential splicing result in multiple transcript variants differing in the 5' UTR and/or coding region. Multiple AUG codons upstream of the main open reading frame (ORF) have been identified, and these upstream AUGs inhibit translation of the main ORF at different extent.

Basic Information

Description

Recombinant Human TPO/Thrombopoietin/THPO Protein is produced by Human cell expression system. The target protein is expressed with sequence (Ser22-Gly353) of human TPO/Thrombopoietin/THPO (Accession #P40225) fused with a 6×His tag at the N-terminus and a 6×His tag at the C-terminus.

Bio-Activity

Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells The ED₅₀ for this effect is typically 0.5-15 ng/mL.

Storage

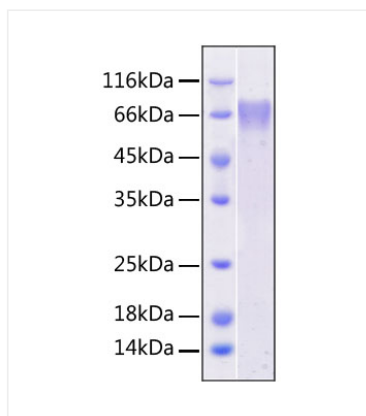
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact



www.abclonal.com

Validation Data



Recombinant protein Human TPO/Thrombopoietin/THPO was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 80 kDa.