

Human Thrombopoietin/THPO (His Tag) recombinant protein



Catalog Number: 503847

General Information

Gene Name Synonym

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

Protein Construction

A DNA sequence encoding the human THPO (NP_000451.1) precursor (Met 1-Gly 353) was fused with a polyhistidine tag at the C-terminus.

Organism

Human

Expression Host

CHO Cells

QC Testing

Activity

Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED₅₀ for this effect is typically 50-200 ng/ml.

Purity

> 85 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Ser 22

Molecular Mass

The recombinant human THPO consists of 343 amino acids with the predicted molecular mass of 36.9 kDa. As a result of glycosylation, the apparent molecular mass of rhTHPO is approximately 60-80 kDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

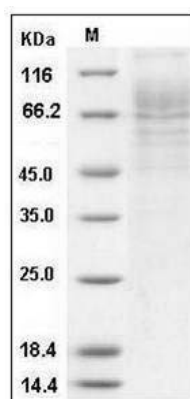
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human Thrombopoietin / THPO / TPO Protein (His Tag) SDS-PAGE