

Recombinant Human Thrombopoietin R/MPL /CD110 Protein

Catalog No.: RP02785

Sequence Information

Species **Gene ID**
Human 4352

Swiss Prot **Tags**
P40238 C-His

Synonyms

TPO-R; CD110; MPL; c-Mpl; MPLV; K12

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE, ≥ 95 % as determined by HPLC.

Calculated MW **Observed MW**
53.6 kDa 68-70 kDa

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The c-mpl gene encodes a member of the hematopoietic cytokine receptor superfamily. This gene was discovered through the study of a murine retrovirus which induces an acute myeloproliferative syndrome in mice. MPLV (for myeloproliferative leukemia virus) has transduced a truncated and constitutively activated form of the c-mpl receptor chain. High levels of c-mpl expression were detected in 45% of acute myeloid leukemia (AML). No correlation was found between c-mpl expression and the French-American-British classification subtype of AML.

Basic Information

Description

Recombinant Human Thrombopoietin R/MPL/CD110 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln26-Trp491) of human Thrombopoietin R/MPL (Accession #NP_005364.1) fused with a 6×His tag at the C-terminus.

Activity

Immobilized Human c-MPL, His Tag at 0.2 μg/ml (100 μl/Well) on the plate. Dose response curve for Anti-c-MPL Antibody, hFc Tag with the EC₅₀ of 9.1 ng/ml determined by ELISA.

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°C

Operational Notes

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

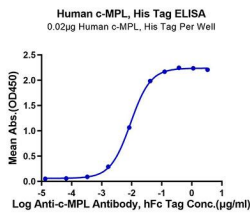
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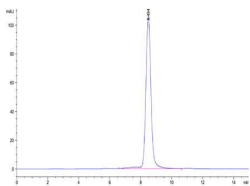
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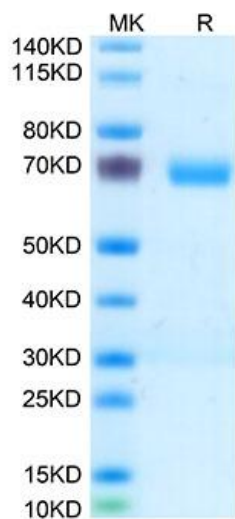
Validation Data



Immobilized Human c-MPL, His Tag at 0.2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-c-MPL Antibody, hFc Tag with the EC₅₀ of 9.1ng/ml determined by ELISA.



The purity of Human Thrombopoietin R/MPL is greater than 95% as determined by SEC-HPLC.



Recombinant Human Thrombopoietin R/MPL/CD110 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.