

PRODUCT INFORMATION

Target c-MPI

C-MPL;CD110;MPLV;THCYT2;THPOR;TPOR **Synonyms**

Recombinant Human c-MPL with C-terminal Description

human Fc tag

Delivery In Stock **Uniprot ID** P40238 **Expression Host** HFK293

Tag C-Human Fc Tag

Molecular

Storage & Shipping

Background

c-MPL(Gln26-Ala490) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight**

78.5 kDa after removal of the signal peptide. The apparent molecular mass of c-MPL-hFc is

approximately 100-130 kDa due to glycosylation.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & Reconstitution

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

In 1990 an oncogene, v-mpl, was identified from the murine myeloproliferative leukemia virus that was capable of immortalizing bone marrow hematopoietic cells from different lineages. In 1992 the human homologue, named, c-mpl, was

cloned. Sequence data revealed that c-mpl encoded a protein that was homologous with members of the hematopoietic receptor superfamily. Presence of anti-sense oligodeoxynucleotides of c-mpl inhibited megakaryocyte colony formation. The ligand for c-mpl, thrombopoietin, was cloned in 1994.

Thrombopoietin was shown to be the major regulator of megakaryocytopoiesis and platelet formation. The protein encoded by the c-mpl gene, CD110, is a 635 amino acid transmembrane domain, with two extracellular cytokine receptor domains and two intracellular cytokine receptor box motifs . TPO-R deficient mice were severely

thrombocytopenic, emphasizing the important role of CD110 and thrombopoietin in megakaryocyte and platelet formation. Upon binding of thrombopoietin CD110 is dimerized and the JAK family of non-receptor tyrosine kinases, as well as the STAT family, the MAPK family, the adaptor protein Shc and the receptors

themselves become tyrosine phosphorylated.

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[provided by RefSeq, Jul 2008]

Usage Research use only Conjugate Unconjugated

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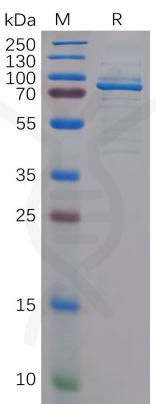


Figure 1. Human c-MPL Protein, hFc Tag on SDS-PAGE under reducing condition.

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