

Recombinant Human MPL Protein, C-His-tagged

Cat. No. MPL-102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MPL Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Thrombopoietin receptor (TPOR, c-Mpl) is a hematopoietic receptor that binds the growth factor, thrombopoietin (TPO), responsible for regulation of platelet production. Expression of TPOR by megakaryocytes is required for megakaryocyte growth and development. TPOR is also expressed by hematopoietic stem cells and is required for stem cell maintenance and expansion. Studies show that mice lacking either TPOR or TPO have severely reduced numbers of platelets and megakaryocytes as well as decreased numbers of other hematopoietic lineages. Binding of TPO to TPOR induces receptor dimerization that leads to phosphorylation and activation of the tyrosine kinase Jak2. Activated Jak2 associates with the cytoplasmic domain of TPOR and phosphorylates TPOR at Tyr626 and Tyr631. These phosphorylated tyrosine residues provide docking sites for downstream signaling molecules including Stat3, Stat5, Shc, and SHIP.
Molecular Mass	~51 kDa
AA Sequence	QDVSLASDSEPLKCFSRTEFLTCFWDEEEAAPSGTYQLLYAYPREKPRACPLSS QSMPHFGTRYVCQFPDQEEVRLFFPLHLWVKNVFLNQTRTQRVLFVDSVGLPAPPS IIKAMGGSQPGELQISWEEPAPEISDFLRYELRYGPRDPKNSTGPTVIQLIATETCCP

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ALQRPHSASALDQSPCAQPTMPWQDGPQKQTSRSPREASALTAEGGSCSLISGLQPGN
 SYWLQLRSEPDGSLGGSWGSWSLPVTVDLPGDAVALGLQCFTLDLKNVTCQWQQ
 QDHASSQGFFYHSRARCPCPRDRYPIWENCEEEEEKTNPGLQTPQFSRCHFKSRNDS
 IIHILVEVTTAPGTVHSYLGSPFWIHQAVRLPTPNLHWREISSGHLELEWQHPSSWAA
 QETCYQLRYTGEQHGDWKVLEPPLGARGGTLELRPRSRYLRLQLRARLNGPTYQGP
 WSSWSDPTRVETATETAW

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

MPL myeloproliferative leukemia virus oncogene [Homo sapiens (human)]

Official Symbol

MPL

Synonyms

MPL; myeloproliferative leukemia virus oncogene; thrombopoietin receptor; CD110; TPOR; TPO-R; proto-oncogene c-Mpl; myeloproliferative leukemia protein; MPLV; C-MPL; THCYT2;

Gene ID

4352

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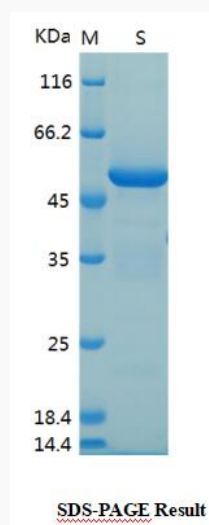
mRNA Refseq [NM_005373](#)

Protein Refseq [NP_005364](#)

MIM [159530](#)

UniProt ID [P40238](#)

SDS-PAGE



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