

## Recombinant Porcine MPL Protein, His-tagged

**Cat. No.** MPL-11153P    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Porcine Thrombopoietin R Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Val 21 - Thr 488 (Accession # K7GPS1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Val 21                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Porcine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 21-488 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Thrombopoietin R, also known as TPO-R, is expressed predominantly on the surface of MKs, platelets, hemangioblasts, and hematopoietic stem cells (HSCs). Binding of TPO to the megakaryocyte TPO-R leads to different effects: prevention of megakaryocyte apoptosis; increased megakaryocyte number, size, and ploidy; increasing rate of megakaryocyte maturation; and internalization of the TPO/TPO-R complex. Thrombopoietin R involved in multiple signal transduction pathways, such as JAK, STAT, and MAP kinase. |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 54.6 kDa. The protein migrates as 65 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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**Storage** This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

## GENE INFORMATION

|                        |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MPL MPL proto-oncogene, thrombopoietin receptor [ <i>Sus scrofa</i> (pig) ]                                           |
| <b>Official Symbol</b> | MPL                                                                                                                   |
| <b>Synonyms</b>        | MPL; MPL proto-oncogene, thrombopoietin receptor; thrombopoietin receptor; myeloproliferative leukemia virus oncogene |
| <b>Gene ID</b>         | 100626347                                                                                                             |
| <b>mRNA Refseq</b>     | XM_013999453                                                                                                          |
| <b>Protein Refseq</b>  | XP_013854907                                                                                                          |
| <b>UniProt ID</b>      | K7GPS1                                                                                                                |

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