


## Human Thrombopoietin protein, His Tag

Cat #: PRP100110

Size: 100µg/1mg

### Product Information

	<b>Product Name:</b> Human Thrombopoietin protein, His Tag		
<b>REF</b>	<b>Catalog Number:</b> PRP100110	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 95 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> Human Cells
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Thrombopoietin (TPO or THPO), also known as myeloproliferative leukemia virus ligand (c-Mpl), is a hematopoietic growth factor belonging to the EPO/TPO family. The thrombopoietin protein is produced mainly by the liver and the kidney that regulates the production of platelets by the bone marrow. Thrombopoietin protein stimulates both proliferation of progenitor megakaryocytes and their maturation to platelet-producing megakaryocytes, and also accelerates the recovery of platelets. Thrombopoietin protein is involved in cardiovascular disease as it regulates megakaryocyte development and enhances platelet adhesion/aggregation. It has been identified that surface c-MPL, the receptor for thrombopoietin protein, binds to the ligand and mediates the action.

**Sequence:** Amino acid sequence derived from mature form of human THPO (NP\_000451.1) (Ser 22-Gly 353) was fused with a polyhistidine tag at the N-terminus.

**Protein length:** The recombinant human THPO consists of 348 amino acids with the predicted molecular mass of 37.6 kDa. As a result of glycosylation, rhTHPO migrates as an approximately 80 kDa band in SDS-PAGE under reducing conditions.

**Formulation:** Lyophilized from sterile PBS, pH 7.4.

**Storage Instructions:** Lyophilized Human Thrombopoietin protein, His Tag product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human Thrombopoietin protein, His Tag in sterile ddH<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

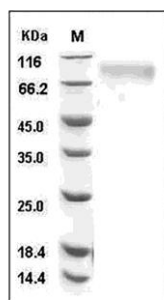


Fig. SDS-PAGE analysis of Human Thrombopoietin protein, His Tag.

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