



# Human Thrombopoietin (DAG344)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	Thrombopoietin (leukemia virus oncogene ligand, megakaryocyte growth and development factor), also known as TPO, is a glycoprotein hormone produced mainly by the liver and the kidney that regulates the production of platelets by the bone marrow. It stimulates
<b>Species</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	The ED50 as determined by the dose-dependent stimulation of the proliferation of human MO7e cells was found to be 1.0 ng/ml, corresponding to a specific activity of 1x10 <sup>6</sup> units/mg. Each laboratory should determine an optimum working titer for use.
<b>Format</b>	Purified, Lyophilized Reconstitute in 5mM Tris, pH 8.0 to a concentration of 0.5-1.0 mg/ml. This solution can be diluted into other aqueous buffers and stored at 2-8°C (up to one week) or -20°C for future use.
<b>Concentration</b>	Not applicable
<b>Buffer</b>	Lyophilized from 5mM Tris, pH 8.0
<b>Preservative</b>	None
<b>Storage</b>	2-8°C short term, -20°C long term

## BACKGROUND

<b>Introduction</b>	Megakaryocytopoiesis is the cellular development process that leads to platelet production. The main functional protein encoded by this gene is a humoral growth factor that is necessary for megakaryocyte proliferation and maturation, as well as for thrombopoiesis. This protein is the ligand for MLP/C_MPL, the product of myeloproliferative leukemia virus oncogene. Mutations in this gene are the cause of thrombocythemia 1. Alternative promoter usage and differential
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splicing result in multiple transcript variants differing in the 5' UTR and/or coding region. Multiple AUG codons upstream of the main open reading frame (ORF) have been identified, and these upstream AUGs inhibit translation of the main ORF at different extent. [provided by RefSeq, Feb 2014]

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**Keywords**

THPO; thrombopoietin; ML; TPO; MGDF; MKCSF; MPLLG; THCYT1; MPL ligand; c-mpl ligand; prepro-thrombopoietin; megakaryocyte stimulating factor; megakaryocyte colony-stimulating factor; megakaryocyte growth and development factor; myeloproliferative leukemia

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