

## Product datasheet for DA3549

### Thrombopoietin Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Thrombopoietin human recombinant protein, 10 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVLP LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLL LGALQSSLGT QLPPQGRTTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNEL
Predicted MW:	18.6 kDa
Purity:	>90% pure by SDS-PAGE
Buffer:	Presentation State: Purified State: Lyophilized (freeze-dried) without buffer and stabilizer
Bioactivity:	Biological: The <b>ED50</b> as determined by the dose-dependent stimulation of MO7e cells (with SCF) is 1,95 ng/ml, corresponding to a specific activity of 5 x 10 <sup>5</sup> U/mg. Specific: 5 x 10 <sup>5</sup> units/mg
Endotoxin:	< 0.1 ng per µg (IEU/µg) of rh TPO
Reconstitution Method:	Restore in sterile water not less than 0.1 mg/ml which can then be further diluted into other aqueous buffers.
Preparation:	Lyophilized (freeze-dried) without buffer and stabilizer
Protein Description:	Thrombopoietin Human Recombinant produced in E.Coli is a single, non-glycosylated soluble polypeptide chain containing 174 amino acids and having a Molecular Mass of 18608 Dalton which comprises the receptor binding domain of the Mpl-ligand protein.
Note:	Centrifuge vials before opening!
Storage:	Lyophilized TPO although stable at Room Temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Human TPO 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. Avoid repeated freeze-thaw cycles!



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<b>Stability:</b>	Shelf life: One year from despatch.
<b>RefSeq:</b>	<a href="#">NP_000451</a>
<b>Locus ID:</b>	7066
<b>UniProt ID:</b>	<a href="#">P40225</a>
<b>Cytogenetics:</b>	3q27.1
<b>Synonyms:</b>	MGDF; MKCSF; ML; MPLLG; THCYT1; TPO
<b>Summary:</b>	<p>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 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]</p>
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Hematopoietic cell lineage