

Product datasheet for **TP723455**

Thrombopoietin (THPO) (NM_000460) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human thrombopoietin (THPO), transcript variant 1.
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
Tag:	Tag Free
Predicted MW:	18.6 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	ED50 was 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 > 1 x 10 ⁶ units/mg.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_000451
Locus ID:	7066
UniProt ID:	P40225
RefSeq Size:	1805
Cytogenetics:	3q27.1
RefSeq ORF:	1059
Synonyms:	MGDF; MKCSF; ML; MPLLG; THCYT1; TPO



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Summary:

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]

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Hematopoietic cell lineage

Product images: