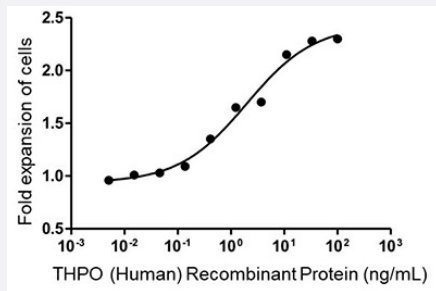


Bioactive

THPO (Human) Recombinant Protein

Catalog # P7007 Size 100 ug

Applications



Functional Study

The ED₅₀ for this effect is <2 ng/mL, measured by the induction of proliferation in MO7e cells.



Specification

Product Description	Human THPO recombinant protein with polyhistidine tag at the N-terminus expressed in <i>Escherichia coli</i> .
Sequence	SPAPPACDLRVLKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSLGEWKTQMEETKAQDIL GAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLLGTQLPPQGRRTAHKDPNAIFL SFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRTSLVLTNL
Host	<i>Escherichia coli</i>
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system

Purification	Ni-NTA chromatography
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 0.01 EU per 1 ug of the protein by the LAL method.
Activity	Measured by the induction of proliferation in MO7e cells. The ED 50 for this effect is < 2 ng/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS, pH 7.4.
Storage Instruction	Store at -20°C, lyophilized protein is stable for 1 year. After reconstitution with deionized water, store at -20 to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

The ED₅₀ for this effect is <2 ng/mL, measured by the induction of proliferation in MO7e cells.

- SDS-PAGE

Gene Info — THPO

Entrez GeneID	7066
Gene Name	THPO
Gene Alias	MGC163194, MGDF, MKCSF, ML, MPLLG, TPO
Gene Description	thrombopoietin
Omim ID	187950 600044
Gene Ontology	Hyperlink
Gene Summary	Megakaryocytopoiesis is the cellular development process that leads to platelet production. The 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. [provided by RefSeq]

Other Designations

MPL ligand|c-mpl ligand|megakaryocyte colony-stimulating factor|megakaryocyte growth and development factor|megakaryocyte stimulating factor|myeloproliferative leukemia virus oncogene ligand|thrombopoietin nirs variant 1

Pathway

- [Hematopoietic cell lineage](#)

Disease

- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Chorioamnionitis](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Myocardial Infarction](#)
- [Obstetric Labor](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Thrombocythemia](#)
- [Werner syndrome](#)