

Bioactive

THPO (Human) Recombinant Protein

Catalog # P6244

Size 100 ug

Applications

Result of activity analysis

Result of activity analysis

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Specification

Product Description

Human THPO (P40225) recombinant protein expressed in CHO cells.

Sequence

SPAPPACDLRVLSKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSLGEWKTQMEETKAQDIL
GAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLLGTQLPPQGRRTAHKDPNAIFL
SFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRSLVLTNELPNRTSGLLETNFTASARTTGS
GLLKWQQGFRAKIPGLLNQTSRSLDQIPGYLNRIHELLNGTRGLFPGPSRRTLGA PDISSGTSDTGS
LPPNLQPGYSPSPTHPPTGQYTLFPLPPTLPTPVVQLHLLPDPSAPTPTPTSPLLNTSYTHSQNL
SQEGHHHHHH

Host

Mammals

Theoretical MW (kDa)

36.3

Form

Lyophilized

Purity

 $\geq 90\%$

Endotoxin Level

 ≤ 1 EUs/ug (Kinetic LAL) (50% confidence)

Activity

ED₅₀ ≤ 15 ng/mL
MO7e cell proliferation

The values provided above are minimum expected values to pass internal requirements.

Quality Control Testing	Reducing and Non-Reducing SDS PAGE
Conformation	Monomer
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 5 mM sodium phosphate, 140 mg L-Arginine, pH 7.5.
Storage Instruction	Stored at -20°C to -80°C for 12 month. After reconstitution with sterile water at 0.1 mg/mL, store at -20°C to -80°C for 3 months, store at 4°C for 1 month. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study

Gene Info — THPO

Entrez GeneID	7066
Protein Accession#	P40225
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](#)