

Bioactive

HuPro®

THPO (Human) Recombinant Protein

Catalog # P9287

Size 2 x 10 ug

Specification

Product Description	Human THPO recombinant protein expressed in HEK293 cells.
Sequence	SPAPPACDLRVLSKLLRDSHVLHSRLSQCEVHPLPTPVLLPAVDFSLGEWKTQMEETKAQDIL GAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLLGTQLPPQGRTTAHKDPNAIFL SFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRTSLVLTNELPNRTSGLLETNFTASARTTGS GLLKWQQGFRAKIPGLLNQTSRSLDQIPGYLNRIHELLNGTRGLFPGPSRRTLGA PDISSGTSDTGS LPPNLQPGYSPSPTHPPTGQYTLFPLPPTLPTPVVQLHPLLDPD SAPTPTPTSP LLNTSYTHSQNL SQEG
Host	Human
Theoretical MW (kDa)	80-85
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purification	chromatographic
Purity	> 95% as determined by SDS-PAGE.
Activity	ED ₅₀ is 1.15 ng/mL, measured by the dose-dependent stimulation of the proliferation of MO7e cells.
Storage Buffer	Protein (0.74 mg/mL) was lyophilized from 1X PBS. Reconstitute the lyophilized powder in PBS containing 0.1% endotoxin-free recombinant HSA.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

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](#)