Bioactive Full-Length

THPO (Human) Recombinant Protein

Catalog # P3680 Size 10 ug

Specification

Product Description	Human THPO (P40225, 1 a.a. - 353 a.a.) full-length recombinant protein. expressed in CHO cells.
Sequence	MELTELLLVVMLLLTARLTLSSPAPPACDLRVLSKLLRDSHVLHSRLSQCPEVHPLPTPVLLPAVD FSLGEWKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLLGT QLPPQGRTTAHKDPNAIFLSFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRTSLVLTLNELPN RTSGLLETNFTASARTTGSGLLKWQQGFRAKIPGLLNQTSRSLDQIPGYLNRIHELLNGTRGLFPGP SRRTLGAPDISSGTSDTGSLPPNLQPGYSPSPTHPPTGQYTLFPLPPTLPTPVVQLHPLLPDPSAP TPTPTSPLLNTSYTHSQNLSQEG
Host	Mammals
Theoretical MW (kDa)	80
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	The ED_{50} was determined by the dose-dependent proliferation of Mo7e cells, was found to be in the range of 1.0-2.0 ng/mL.
Storage Buffer	Lyophilized from PBS, pH 7
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- SDS-PAGE

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Genetic Predisposition to Disease
- Kidney Failure
- Myocardial Infarction
- Obstetric Labor
- Pre-Eclampsia
- Premature Birth
- Thrombocythemia
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.