

AR51877PU-N

Human Thrombopoietin (22-353, His-tag) - Purified

Alternate names:

C-mpl ligand, MGDF, Megakaryocyte colony-stimulating factor, Megakaryocyte growth and development factor, Myeloproliferative leukemia virus oncogene ligand, THPO

Quantity:

0.25 mg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

THPO (Thrombopoietin), also known as megakaryocyte growth and development factor (MGDF), is a glycoprotein hormone produced by the liver and kidney which regulates the production of platelets. It stimulates the production and differentiation of megakaryocytes, the bone marrow cells that bud off large numbers of platelets. Megakaryocytopoiesis is the cellular development process that leads to platelet production. THPO is a humoral growth factor 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.

Uniprot ID:

[P40225](#)

NCBI:

[NP_000451](#)

GenelD:

[7066](#)

Species:

Human

Format:

State: Liquid purified protein

Purity: >85% by SDS – PAGE.

Buffer System: Phosphate buffered saline (pH 7.4) containing 10% glycerol.

Endotoxin Level: < 1.0 Eu per 1 microgram of protein (determined by LAL method)

Description:

Recombinant human THPO, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

AA Sequence:

SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPV LPAVDFSLGE WKTQMEETKA
QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLL LGALQSLLGT QLPPQGRRTA
HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNELPNRTSG
LLETNFTASA RTTGSGLLKW QQGFRAKIPG LLNQTSRSLD QIPGYLNRIH ELLNGTRGLF
PGPSRRTLGA PDISSGTSDDT GSLPPNLQPG YSPSPHPPT GQYTLFPLPP TLPTPVVQLH
PLLPDPSAPT PTPTSPLLNT SYTHSQNLSQ EGLEHHHHHH

Molecular weight: 36.5 kDa (340aa) 40-57KDa (SDS–PAGE under reducing conditions.)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Jenkins JM., et al. (2007) Blood. 109:4739-4741

Pictures:

