

THPO, 22-353aa, Human, His tag, Insect cell

Cat.NO.: TP04208

3th Edition

Synonyms:Thrombopoietin isoform 1, MGDF, MKCSF, ML, MPLLG, THCYT1, TPO

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

Form:Liquid. In phosphate buffered saline (pH 7.4) containing 10% glycerol.

Molecular Weight:

Sequences:

SPAPPACDLRVLSKLLRDSHVLHSRLSQCPVHPLPTPVLLPAVDFSLGEWKTQMEETKAQDILGAVTLLLEGVMA
ARGQLGPTCLSSLLGQLSGQVRLLLGALQSLGTLPPQGRTTAHKDPNAIFLSFQHLLRGKVRFLMLVGGSTLCV
RRAPPTTAVPSRTSLVLTNLPNRTSGLLETNFTASARTTGSGLLKWQQGFRAKIPGLLNQTSRSLDQIPGYLNRI
HELLNGTRGLFPGPSRRTLGAIDISSGTSDTGSLPPNLQPGYSPSPHPPTGQYTLFPLPPTLPTPVVQLHPLLDP
SAPTPTPTSPLLNTSYTHSQNLSQEGLEHHHHHH

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.