

Thrombopoietin Active Protein | THPO active protein

Recombinant human Thrombopoietin protein

CATALOG # AAA48378	HOST HEK293	APPLICATIONS SDS-Page
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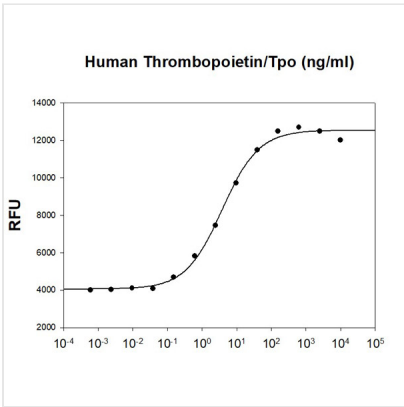
PRODUCT SYNONYMS

Thrombopoietin; Recombinant human Thrombopoietin protein; THPO; MGDF; MKCSF; ML; MPLLG; THCYT1; TPO; thrombopoietin isoform 1 precursor; C-mpl ligand; Megakaryocyte colony-stimulating factor; Megakaryocyte growth and development factor; Myeloproliferative leukemia virus oncogene ligand; ATGP3057; THPO active protein

PRODUCT SPECIFICATIONS

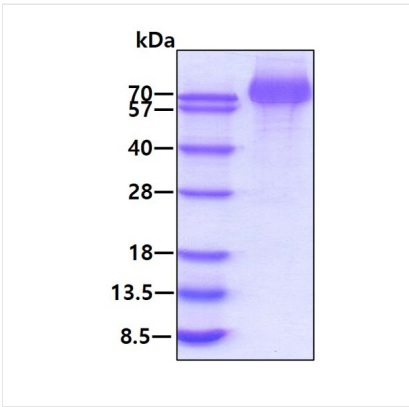
Host	HEK293
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	22-353aa
Sequence	SPA PPACDLRVLS KLLRDSHVLH SRLSQCEVH PLPTPVLLPA VDFSLGEWKT QMEETKAQDI LGAVTLLLEG VMAARGQLGP TCLSSLLGQL SGQVRLLGA LQSLGTQLP PQGRRTAHKD PNAIFLSFQH LLRGKVRFLM LVGGSTLCVR RAPPTTAVPS RTSLVLTNE LPNRTSGLLE TNFTASARTT GSGLLKWQQG FRAKIPGLLN QTSRSLDQIP GYLNRHELL NGTRGLFPGP SRRTLGAPDI SSGTSDTGSL PPNLQPGYSP SPTHPTGQY TLFPLPPTLP TPVVQLHPLL PDPSAPTPPT TSPLLNTSYT HSQNLSQEG< HHHHHH>
Applicable Applications for THPO active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	His-Tag
Predicted N-term	Asp
Bioactivity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 range <=10ng/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Human Thrombopoietin stimulates cell proliferation of the MO7e human megakaryocytic leukemic cells. The ED50 range



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for THPO active protein	Thrombopoietin, also known as megakaryocyte growth and development factor (MGDF), is a member of EPO/TPO family. It is produced in the liver by both parenchymal cells and sinusoidal endothelial cells, as well as in the kidney by proximal convoluted tubule cells. It acts as a key regulator of megakaryocytopoiesis and thrombopoiesis that leads to platelet production. Also, this protein is the ligand for MLP/C_MPL, the product of myeloproliferative leukemia virus oncogene. Thrombopoietin, like EPO, plays a role in brain development. It promotes apoptosis of newly generated neurons, an effect counteracted by EPO and neurotrophins. Recombinant human Thrombopoietin fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for THPO active protein	Cardiovascular; Proteins
References	Fishley B, et al, (2004) Growth Factors. 22:151-155. Chou FS, et al, (2011) J Cell Biochem. 112:1491-1498. Kong Z, et al, (2017) Blood. 130:1097-1103.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507493
NCBI GeneID	7066
NCBI Accession #	NP_000451.1
NCBI GenBank Nucleotide #	NM_000460.3
UniProt Accession #	P40225; Q13020; Q15790; Q15791; Q15792; A1L3Y0; B7ZLR8; B9EGA8
Molecular Weight	33,604 Da
NCBI Official Full Name	thrombopoietin isoform 1
NCBI Official Synonym Full Names	thrombopoietin
NCBI Official Symbol	THPO
NCBI Official Synonym Symbols	ML; TPO; MGDF; MKCSF; MPLL; THCYT1
NCBI Protein Information	thrombopoietin
UniProt Protein Name	Thrombopoietin
UniProt Gene Name	THPO
UniProt Synonym Gene Names	MGDF; ML; MGDF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-active-protein/thrombopoietin/48378>