

Thrombopoietin Active Protein | THPO active protein

Thrombopoietin Protein, Cynomolgus, Recombinant (His Tag)

CATALOG #
AAA258262

HOST
HEK293 Cells

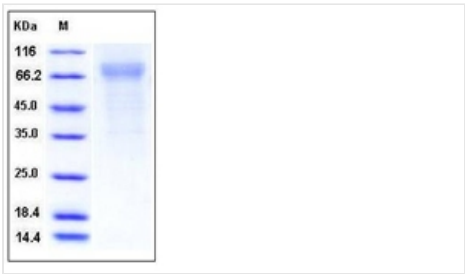
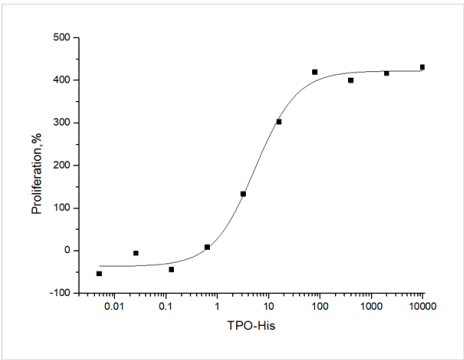
PRODUCT SYNONYMS

Thrombopoietin; Thrombopoietin Protein; Cynomolgus; Recombinant (His Tag); Cynomolgus Thrombopoietin/THPO/TPO Protein (His Tag); thrombopoietin; THPO active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>86% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Gly35 3
Species	Cynomolgus
Activity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 for this effect is typically 1-5ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser 22
Tag	C-His
Protein Construction	A DNA sequence encoding the Cynomolgus (Macaca fascicularis) THPO (XP_005546625.1)(Met 1-Gly 353) precursor was expressed, with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 for this effect is typically 1-5 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for THPO active protein	Background: Thrombopoietin (TPO or THPO), also known as myeloproliferative leukemia virus ligand (c-Mpl), is a hematopoietic growth factor belonging to the EPO/TPO family. The thrombopoietin protein is produced mainly by the liver and the kidney that regulates the production of platelets by the bone marrow. Thrombopoietin protein stimulates both proliferation of progenitor megakaryocytes and their maturation to platelet-producing megakaryocytes, and also accelerates the recovery of platelets. Thrombopoietin protein is involved in cardiovascular disease as it regulates megakaryocyte development and enhances platelet adhesion/aggregation. It has been identified that surface c-MPL, the receptor for thrombopoietin protein, binds to the ligand and mediates the action.
Product Categories/Family for THPO active protein	Serine Proteases and Regulators
References	Ryu T,et al.(2003) Thrombopoietin-producing hepatocellular carcinoma. Intern Med. 42(8): 730-4.Higashihara M,et al. (2003) Thrombopoietin-producing tumor. Intern Med. 42(8): 632-3

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant cynomolgus THPO consists of 343 amino acids and has a calculated molecular mass of 36.8kDa. The apparent molecular mass of the recombinant protein is approximately 70-80kDa in SDS-PAGE under reducing conditions due to glycosylation.
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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-cells-thpo-active-protein/thrombopoietin/258262>