

Datasheet for ABIN7520543

Thrombopoietin Protein (THPO) (His tag)



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Overview

Quantity:	100 µg
Target:	Thrombopoietin (THPO)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Thrombopoietin protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Mouse Thrombopoietin/THPO Protein
Sequence:	SPVAPACDPR LLNKLLRDSH LLHSRLSQCP DVDPLSIPVL LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL GQLSGQVRLL LGALQGLLGT QLPLQGRTTA HKDPNALFLS LQQLLRGKVR FLLLVEGPTL CVRRTLPTTA VPSSTSQLLT LNKFPNRTSG LLETNFSVTA RTAGPGLLSR LQGFRVKITP GQLNQTSRSP VQISGYLNRT HGPVNGTHGL FAGTSLQTL ASDISPGAFN KGSLAFNLQG GLPPSPSLAP DGHTPFPPSP ALPTTHGSPP QLHLPLPDPS TTMPNSTAPH PVTMYPHPRN LSQET
Specificity:	Ser22-Thr356
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg
Biological Activity Comment:	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells.

Product Details

Avanzi, G. et al. (1988) Br. J. Haematol. 69:359. The ED₅₀ for this effect is 0.45-1.80 ng/mL.

Target Details

Target:	Thrombopoietin (THPO)
Alternative Name:	Thrombopoietin/THPO (THPO Products)
Background:	<p>Description: 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.</p> <p>Name: MI, Tpo, Mgdf, Mpllg, THPO</p>
Gene ID:	21832
UniProt:	P40226-1
Pathways:	JAK-STAT Signaling , Hormone Activity

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C, -80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein

solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.