

Active Recombinant Rat Tpo Protein (174 aa), His-tagged

Cat. No. Tpo-202T Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Rat Thrombopoietin(TPO), His, produced in CHO cells is a polypeptide chain containing 174 amino acids. A fully biologically active molecule, rrTPO has a molecular mass of 22 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.

Species Rat

Source CHO

ProteinLength 174

Description Thrombopoietin (TPO), also known as c-Mpl ligand, MGDF and THOP, is a glycoprotein hormone belonging to the EPO/TPO family. It is expressed mainly in the liver, kidney and skeletal muscle. TPO binds and signals through c-Mpl receptor. It stimulates the proliferation and maturation of megakaryocytes from their committed progenitor cells, and it regulates the production and circulation of platelets. TPO has also been reported to promote apoptosis of hypoxia-sensitized neurons and to inhibit neuronal differentiation.

Form Sterile Filtered White lyophilized (freeze-dried) powder.

Bio-activity The ED50 as determined by the dose-dependent stimulation of the proliferation of human MO7e cells was found to be ≤ 0.2 ng/mL, corresponding to a specific activity of ≥ 5.6 units/mg.

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Molecular Mass	22 kDa, observed by reducing SDS-PAGE.
AA Sequence	SPVPPACDPRLLNKLLRDSYLLHSRLSQCPDVNPLSIPVLLPAVDFSLGEWKTQTEQ SKAQDILGAVSLLLEGVMAARGQLEPSCLSSLLGQLSGQVRLLLGALQGLLGTQLPP QGRRTAHKDPSALFLSLQQLLRGKVRLLLLVEGPALCVRRTLPTTAVPSRTSQLLTL NKFHHHHHHH
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 98% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Rat Thrombopoietin remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat Thrombopoietin should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Tpo thyroid peroxidase [Rattus norvegicus]
Official Symbol	Tpo
Synonyms	TPO; thyroid peroxidase;
Gene ID	54314
mRNA Refseq	NM_019353

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UniProt ID F1LN48

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