

THPO

Recombinant Human Thrombopoietin Animal Free

Catalog No.	CRT400A-AF CRT400B-AF CRT400C-AF	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	TPO, MGDF, MKCSF, ML, MPLLG, THCYT1		
Description:	<p>Thrombopoietin (THPO), the ligand for the receptor encoded by the c-Mpl proto-oncogene, is a key regulator of megakaryocytopoiesis (the development process that leads to platelet production) and thrombopoiesis <i>in vitro</i> and <i>in vivo</i>. Thrombopoietin is produced by liver and kidney tissue. Recombinant THPO has now been shown to stimulate the maturation, as well as the proliferation, of megakaryocytes and may have important therapeutic applications for the treatment of various clinical conditions associated with thrombocytopenia.</p> <p>Recombinant human THPO, produced in <i>E. coli</i>, is a single polypeptide chain containing 175 amino acids.</p>		
Gene ID:	7066		
UniProtKB:	P40225		
Source:	<i>E. coli</i>		
Molecular Weight:	Monomer, 18.8 kDa (175 aa)		
Formulation:	Lyophilized from sterile filtered solution containing 10 mM sodium phosphate, pH 7.5.		
Purity:	≥90% by reducing and nonreducing SDS-PAGE		
Endotoxin Level:	≤1 EU/µg		
Biological Activity:	Activity, as determined by the dose-dependent proliferation of human MO7e cells is < 5 ng/ml.		
Specific Activity:	≥2 x 10 ⁵ IU/mg		
Amino Acid Sequence:	MAPARSPSPS TQPWEHVNAI QEARRLLNLS RDAAEMNET VEVISEMFDL QEPTCLQTRL ELYKQGLRGS LTKLKGPLTM MASHYKQHCP PTPETSCATQ IITFESFKEN LKDFLLVIPF DCWEPVQE		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	Upon receipt, store desiccated at -20 °C for up to one year. Upon reconstitution, store at 2-8 °C for up to one month or in working aliquots containing 0.1% BSA at -80 °C for up to one year. Avoid repeated freeze-thaw cycles.		

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