

THPO

Recombinant Human Thrombopoietin

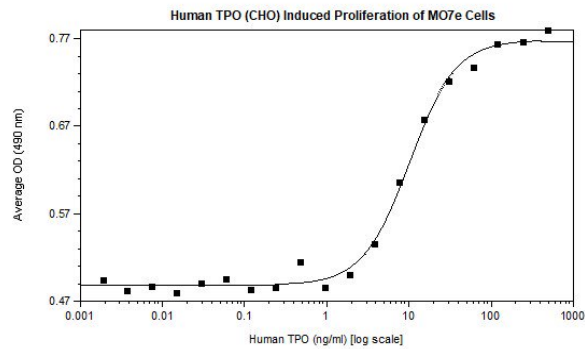
Catalog No.	CRT400A CRT400B CRT400C	Quantity:	5 µg 25 µg 1.0 mg
Alternate Names:	TPO, Megakaryocyte Colony Stimulating Factor, c-MPL ligand, MGDF		
Description:	Thrombopoietin (TPO), the ligand for the receptor encoded by the c-Mpl proto-oncogene, is a key regulator of megakaryocytopoiesis (the development 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 TPO 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.		
Gene ID:	7066		
UniProt ID:	P40225		
Source:	CHO cell line		
Molecular Weight:	predicted as 36.3 kDa (338 aa) without glycosylation. Contains C-terminal 6x-polyhistidine (6xHis) tag.		
Formulation:	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 5 mM sodium phosphate, 140 mg L-Arginine, pH 7.5		
Purity:	≥90% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤1 EU/µg by kinetic LAL analysis		
Biological Activity:	≤ 15 ng/ml, as determined by the dose-dependent proliferation of human MO7e cells.		
Amino Acid Sequence:	SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLTPVL LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRLL LGALQSLLGT QLPPQGRTTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNELPNRTSG LLETNFTASA RTTGSGLLKW QQGFRAKIPG LLNQTSRSLD QIPGYLNRIH ELLNGTRGLF PGPSRRTLGA PDISSGTSDDT GSLPPNLQPG YSPSPHPPT GQYTLFPLPP TLPTPVVQLH PLLDPSPAPT PTPTSPDLLNT SYTHSQNLSQ EGHHHHHH		
Reconstitution:	Centrifuge vial prior to opening. Add sterile deionized water to a concentration of 0.1 mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.		



Storage & Stability:

Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.

Avoid repeated freeze-thaw cycles.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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