

Thpo

Recombinant Mouse Thrombopoietin

Catalog No.	CRT401A CRT401B CRT401C CRT401D	Quantity:	2 µg 10 µg 1.0 mg 100 µg
Alternate Names:	Megakaryocyte Colony Stimulating Factor, c-MPL Ligand, MGDF		
Description:	Thrombopoietin (TPO) is a growth factor that is produced by the liver and kidney. TPO acts through the TPO receptor to promote megakaryocyte maturation and differentiation, which leads to the production of platelets.		
Gene ID:	21832		
UniProt ID:	P40226		
Source:	<i>E. coli</i>		
Molecular Weight:	18.7 kDa (174 aa)		
Formulation:	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5		
Purity:	≥ 95% as determined by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1EU/µg protein as measured by kinetic LAL analysis.		
Biological Activity:	ED ₅₀ < 1 ng/ml, determined by the dose-dependent stimulation of MO7e cells.		
Specific Activity:	≥ 2.0 x 10 ⁵ units/ml		
Amino Acid Sequence:	SPVAPACDPR LLNKLLRDSH LLHSRLSQCP DVDPLSIPVL LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL GQLSGQVRL LGALQGLLGT QLPLQGRRTA HKDPNALFLS LQQLLRGKVR FLLLVEGPTL CVRRTLPTTA VPSSTSQLLT LNKF		
Reconstitution:	Centrifuge vial prior to opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous 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.**

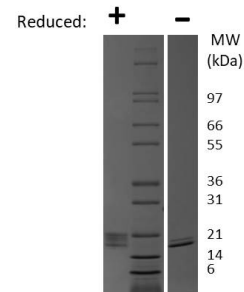
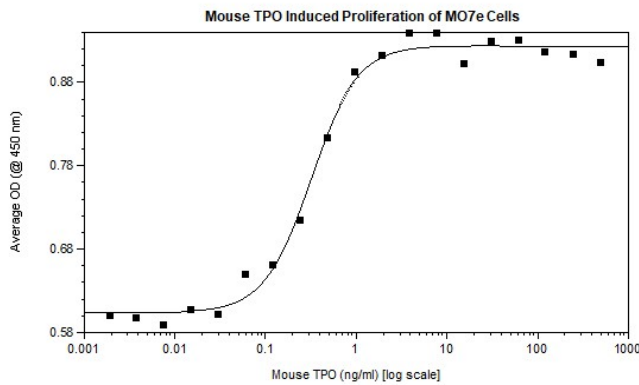
**Mouse TPO Gel**

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse TPO is a monomer with a predicted MW of 18.7 kDa.

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

