

## Thpo

### Recombinant Mouse Thrombopoietin, Animal Free

<b>Catalog No.</b>	CRT401A-AF CRT401B-AF CRT401C-AF CRT401D-AF	<b>Quantity:</b>	2 µg 10 µg 1.0 mg 100 µg
<b>Alternate Names:</b>	Megakaryocyte Colony Stimulating Factor, c-MPL Ligand, MGDF		
<b>Description:</b>	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.		
<b>Gene ID:</b>	21832		
<b>UniProt ID:</b>	P40226		
<b>Source:</b>	<i>E. coli</i> <b>Manufactured without Animal-derived products, in an Animal Free facility.</b>		
<b>Molecular Weight:</b>	18.7 kDa (174 aa)		
<b>Formulation:</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5		
<b>Purity:</b>	≥ 95% as determined by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 1EU/µg protein as measured by kinetic LAL analysis. <b>Manufactured without Animal-derived products, in an Animal Free facility.</b>		
<b>Biological Activity:</b>	ED <sub>50</sub> < 1 ng/ml, determined by the dose-dependent stimulation of MO7e cells.		
<b>Specific Activity:</b>	≥ 2.0 x 10 <sup>5</sup> units/ml		
<b>Amino Acid Sequence:</b>	SPVAPACDPR LLNKLLRDSH LLHSRLSQCP DVDPLSIPVL LPAVDFSLGE WKTQTEQSKA QDILGAVSLL LEGVMAARGQ LEPSCLSSLL GQLSGQVRL LGALQGLLGT QLPLQGRRTA HKDPNALFLS LQQLLRGKVR FLLLVEGPTL CVRRTLPTTA VPSSTSQLLT LNKF		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> 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.**

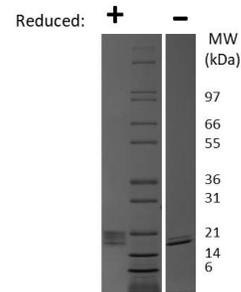
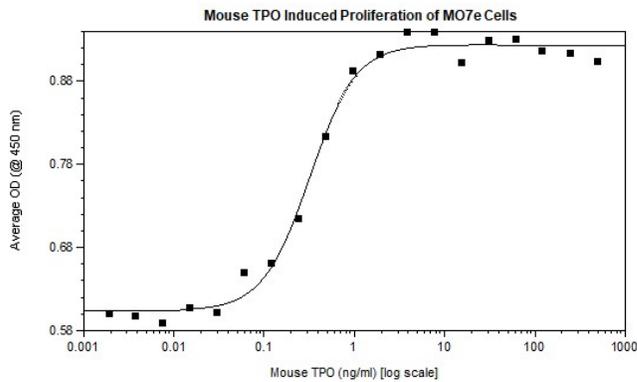
**Mouse TPO Gel**

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.**



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