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## **Thrombopoietin Protein (THPO)**

2 Images



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Overview			
Quantity:	2 μg		
Target:	Thrombopoietin (THPO)		
Origin:	Mouse		
Source:	Escherichia coli (E. coli)		
Protein Type:	Recombinant		
Product Details			
Characteristics:	C-mpl ligand (ML), Megakaryocyte Colony Stimulating Factor, Megakaryocyte growth and		
	developtment factor (MGDF), Myeloproliferative leukemia virus oncogene ligan, c-MPL ligand		
Purification:	Thrombopoietin purity was determined to be greater than 97% as determined by reducing and		
	non-reducing SDS-pAGE.		
Endotoxin Level:	Low endotoxin		
Target Details			
Target:	Thrombopoietin (THPO)		
Alternative Name:	Thrombopoietin (THPO Products)		
UniProt:	P40226		
Pathways:	JAK-STAT Signaling, Hormone Activity		
Application Details			
Application Notes:	Application Note: Thrombopoietin Recombinant Protein is suitable as a control for polyclonal or		

monoclonal anti-Thrombopoietin in immunological ass	says.
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Other Performance Data: Endotoxin Level: Measured by kinetic LAL analysis and is typically  $\leq 1$  EU/µg protein. Biologic Activity: The activity is determined by the dose-dependent stimulation of MO7e cells and is typically less than 1 ng/mL.

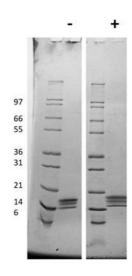
Restrictions:

For Research Use only

### Handling

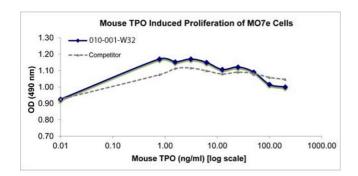
Format:	Lyophilized	
Reconstitution:	Reconstitution Volume: 2 $\mu$ L (2-20 $\mu$ L) Reconstitution Buffer: Restore with deionized water (or equivalent)	
Buffer:	Buffer: 0.01 M Sodium Phosphate, pH 7.5 Stabilizer: None	
Preservative:	Without preservative	
Storage:	RT,4 °C,-20 °C	
Expiry Date:	6 months	

### **Images**



#### **SDS-PAGE**

Image 1. SDS-PAGE of Mouse Thrombopoietin Recombinant Protein SDS-PAGE of Mouse Thrombopoietin Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 μg Mouse TPO in non-reducing conditions . Lane 3: Molecular weight marker. Lane 4: 1 μg Mouse TPO in reducing conditions (+). Mouse TPO has a predicted MW of 18.7 kDa.



#### **SDS-PAGE**

**Image 2.** SDS-PAGE of Mouse Thrombopoietin Recombinant Protein Bioactivity of Mouse Thrombopoietin Recombinant Protein. Serial dilutions of Mouse TPO, starting at 200 ng/mL, were added to MO7e cells growing in the presence of 1 ng/mL IL-3 and 2.5 ng/mL SCF. Proliferation was measure after 5 days and the linear portion of the curve was us used to calculate the ED50. The ED50 of Mouse TPO is less than 0.8 ng/mL. This value is comparable to the typical expected range of 1 ng/mL.