

## GFM32AF Recombinant Mouse TPO (Animal-Free)

### Description

Thrombopoietin (TPO) is a growth factor that is produced by liver and kidney tissues. TPO binds the TPO receptor (CD110) to promote megakaryocyte maturation, differentiation, and the production of platelets.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

<b>Length</b>	175 aa
<b>Molecular Weight</b>	18.8 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P40226
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

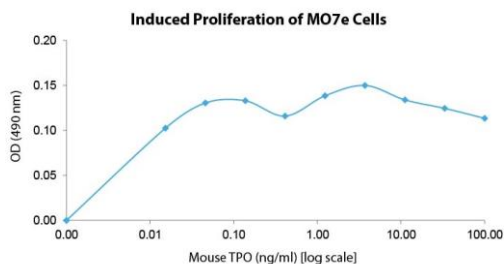
### Specifications

<b>Alternative Names</b>	TPO, Megakaryocyte Colony Stimulating Factor, c-MPL ligand, MGDF
<b>Biological Activity</b>	Mouse TPO (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the ability to induce MO7e cells proliferation and it is typically less than 5 ng/ml. This corresponds to an expected specific activity of $2.0 \times 10^5$ units/mg.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
<b>AA Sequence</b>	MSPVAPACDP RLLNKLLRDS HLLHSRLSQC PDVDPLSIPV LLPAVDFSLG EWKTQTEQSK AQDILGAVSL LLEGVMAARG QLEPSCLSSL LGQLSGQVRL LLGALQGLLG TQLPLQGRIT AHKDPNALFL SIQQLLRGKV RFLLLVEGPT LCVRRTLPTT AVPSSTSQLL TLNKF

### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before 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 0.1 mg/ml, which can be further diluted into other aqueous solutions. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Induced proliferation of MO7e cells assay for Mouse TPO. Cell proliferation was measured to calculate the ED50, which is as expected less than 5 ng/ml.