

## GFH216 Recombinant Human TPO

### 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.

<b>Length</b>	338 aa
<b>Molecular Weight</b>	36.3 kDa
<b>Source</b>	Genetically modified CHO cells
<b>Accession Number</b>	P40225
<b>Purity</b>	≥90% determined by reducing and non-reducing SDS-PAGE

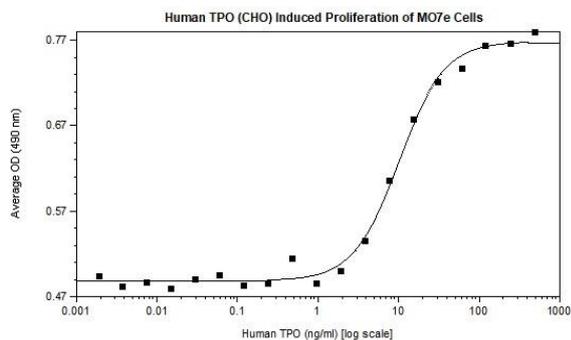
### Specifications

<b>Alternative Names</b>	TPO, Megakaryocyte Colony Stimulating Factor, c-MPL ligand, MGDF
<b>Biological Activity</b>	Human TPO 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 15 ng/ml. This corresponds to an expected specific activity of $6.7 \times 10^4$ 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 5 mM sodium phosphate, 140 mg L-Arginine, pH 7.5
<b>AA Sequence</b>	SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPV LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRL L GALQSLLGT QLPPQGR TTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNELPNRTSG LLETNFTASA RTTGSGLLKW QQGFRAKIPG LLNQTSRSLD QIPGYLNRIH EL

### 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.
<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 Human TPO. Cell proliferation was measured to calculate the ED50, which is as expected less than 15 ng/ml.