



# Certificate of Analysis

Recombinant Human TPO (CHO)

Catalog Number: 100-216

Lot Number: 0219-100-216

## Product Description

**Alternate Names:** Megakaryocyte Colony Stimulating Factor, c-MPL ligand, MGDF **Accession/Uniprot Number:** P40225

**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. Human TPO (CHO) contains a C-terminal 6x-polyhistidine (6xHis) tag.

**Source:** Genetically modified *CHO cells*.

**Predicted MW:** Monomer, 36.3 kDa (338 amino acids)

**AA Sequence:** SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPV LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL QLSGQVRL LGALQSLGTL QLPPQGRITTA HKDPNAIFLS FQHLLRGKVR FLMLVGGSTL CVRRAPPTTA VPSRTSLVLT LNELPNRTSG LLETNFTASA RTTGSGLLKW QQGFRKIPG LLNQTSRSLD QIPGYLNRIH EL

**Formulation:** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 5 mM sodium phosphate, 2 mM L-Arginine, pH 7.5

## Product Specifications

Specification	Method of Determination	Acceptance Criteria	Result
Purity	Reducing and Non-reducing SDS-PAGE	≥90%	>95%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/ug	0.119 EUs/ug
Biological Activity	MO7e cell proliferation	ED50 ≤ 15 ng/mL (≥ 6.7 x 10 <sup>4</sup> units/mg)	ED50 = 10.3 ng/mL (9.7 x 10 <sup>4</sup> units/mg)

## Product Preparation and Storage

**Country of Origin:** USA      **Shipping:** Room temperature      **Storage Prior to Reconstitution:** -20°C

**Reconstitution:** Sterile water at 0.1 mg/mL      **Date of Recon.:**      **Initials:**

Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C, and avoid repeat freeze thaws.

**Expiration Date:**      **Date Received:**

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.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

Lane Charles (2020-12-08)  
QC Reviewer (YYYY-MM-DD)

Jasmine George (2020-12-08)  
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