



Product Data Sheet

Recombinant Human TPO (CHO)

Catalog Number: 100-216

Product Description

Alternate Names: Megakaryocyte Colony Stimulating Factor, c-MPL ligand, MGDF P40225

Accession Number:

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 (with 338 amino acids)

AA Sequence: SPAPPACDLR VLSKLLRDSH VLHSRLSQCP EVHPLPTPVL LPAVDFSLGE WKTQMEETKA QDILGAVTLL LEGVMAARGQ LGPTCLSSLL GQLSGQVRL LGALQSLLGT QLPPQGRTTA 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*

*Lot-specific values for the following specifications are supplied with each production lot on its corresponding COA.

Specification	Method of Determination	Acceptance Criteria
Purity	Reducing and Non-Reducing SDS-PAGE	≥90%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/μg
Biological Activity	MO7e cell proliferation	ED50 ≤ 15 ng/mL (≥ 6.7 x 10 ⁴ units/mg)

Product Preparation and Storage

Country of Origin: USA **Shipping:** Room temperature

Storage Prior to Reconstitution: -20°C

Product Reconstitution: Sterile water at 0.1 mg/mL

Instructions: 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:

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!